Correlating Committee on Professional Qualifications
NFPA 1521 - Second Draft Meeting
October 9, 2013
11:00am ET
Conference Call/Adobe Connect (refer to Meeting Notice email)

Agenda

1. Call to Order - Chair William Peterson
2. Introduction of Members and Guests
3. Chair’s Remarks and Purpose of Meeting
4. Approval of Minutes from Previous Meeting (see attachment A)
5. Review Correlating Committee Responsibilities (see attachment B)
6. Review the Public Comments and the Second Draft as balloted by the TC. Create Correlating Revisions and revise actions on Comments if necessary. (see attachment C)
7. Next Meeting
8. Adjourn at the Close of Business
AGENDA

ATTACHMENT A
NFPA Correlating Committee on Professional Qualifications Working Group Meeting

February 6-8, 2013

Sacramento, CA

Participants

William Peterson, Chair
Doug Forsman
Richard Galtieri
Fred Piechota
Alan Joos (via Live Meeting)
Pat Marlatt
Larry Preston
Paul Valentine
Jim Stumpf
Ed Hawthorne (via Live Meeting)

Kirk Hankins (via Live Meeting)
Randy Krause (via Live Meeting)
Billy Shelton (via Live Meeting)
Tonya Hoover CSFM – Guest
Morgana Yahnke - Guest
Tom McGowan – NFPA Staff Liaison
Steve Sawyer – NFPA Staff Liaison
Ken Holland – NFPA Staff Liaison

February 6, 2013

0803- Chair Peterson called the Meeting to order at. Attendees introduced themselves.

Agenda Item 3California Fire Marshal Hoover welcomed the attendees to Sacramento on behalf of Governor Brown and the Office of the State Fire Marshal’s Office.

Chairman Peterson welcomed Marshal Hoover to the Committee.

Agenda Item 4Chairman Peterson reviewed the agenda for the meeting. Fred Piechota asked that item 16, a request submitted to the Committee for an Opinion be withdrawn from the agenda. Request was approved.

Agenda Item 5The Minutes of the September 17, 2012 Conference Call were approved on a motion by Forsman, second by Piechota.

Agenda Item 6McGowan reviewed the new Committee Member Orientation program and Manual as well revised Membership Criteria and hardship status. He also updated the attendees on the new Standard’s development, review, comment, and approval process to include a demonstration of the online Terra View comment process.

Agenda Item 7The first draft of NFPA 1003 was next on the agenda. Marlatt reported that the 1001 Technical Committee had been balloted and that no action was required of the Correlation Committee at this time. Marlatt pointed out that this was the first instance of the TC reviewing all past Job Performance Requirements and tasks as requested by the Correlating Committee.

The first draft of NFPA 1035 was reviewed. A major change to the document was the change of the term “juvenile” which had been used in previous editions to the term “youth” and that the impetus for this change had come from the court system. The draft eliminates level II and replaces it with a level of Youth Firesetter Intervention Specialist Program Manager.
Peterson read comments from TC Chair Austin regarding the first draft of NFPA 1091. Austin reported that that TC had processed a number of comments and that a Task Group had been formed to consider terminology changes arising from international issues. He stated that the project was moving forward on schedule.

The second draft of NFPA 1005 was reviewed

The Committee discussed changes to the prerequisite levels, specifically that both Firefighter II and Interior and Exterior Industrial Fire Brigade Member should not be required but that one or the other was intended. The Committee discussed the placement of “simulator” in the body of Standard versus in the Annex as is found in other Standards. McGowan pointed out that the draft has combined levels I and II into a single level.

Agenda Item 9
Peterson informed the members that APCO has filed 21 NITMAMs regarding the proposed document to be considered at the June Annual Meeting. A meeting will be held at the NFPA to consider/resolve possible ANSI conflict issues.

Agenda Item 10
McGowan reviewed the objectives of the Pro Qual Summit and updated the members as to the status of documents impacted by that meeting. He reviewed all Pro Qual documents and their new revision schedule and he gave an overview of the new Standard development process. Of the 20 goals established from the Summit, 10 have been completed. He then discussed the next goals to be accomplished, i.e. Similar Topics across multiple Standards, Needs Assessment and Sunset Policy, and periodic review of Pro Qual related issues.

The Committee was joined by TC Chair Krause and returned to Agenda Item 8, the second draft to NFPA Standard 1521. McGowan reviewed the current status of the document. Significant discussion ensued that looked at JPR’s, Requisite Knowledge and Requisite Skills. Piechota pointed out that JPR’s must be targeted at an individual’s qualification/credential to perform the tasks needed to accomplish the objective but that the JPR’s should not address organizational functions, the organization, or the authority needed to accomplish the task. Discussion was also held regarding prerequisites that may be needed such as Fire Officer (at various levels) and Fire Service Instructor.

1700 - The Committee recessed

February 7, 2013

0800- The Committee re-convened the meeting on February 7.

Discussion on the revised NFPA 1521 document was completed.

Agenda Item 10 – Brief discussion on the Tentative Interim Amendment for NFPA 1001

Agenda Item 11 b - Motion from Forsman, second from Galtieri to approve an unfunded research project to analyze similar topics across multiple standards. Motion carried.
Agenda Item 11c – Motion from Forsman, second by Hankins to approve a 10-year needs assessment and sunset policy and add this material to the manual. Motion carried.

Agenda Item 11 d – discussion regarding continual review of professional qualifications related issues

Agenda Item 11 – discussion regarding the 2014 to 2016 goals

Agenda Item 12 b – general discussion regarding document reorganization

Agenda Item 12 c – Motion by Preston, second by Shelton to adopt the EMS Officer Task Group recommendation to the Standards Council that an EMS Officer Professional Qualifications document be written and assigned to a new technical committee in the Pro Qual Project. This document should use NFPA 1021 as a model. Motion carried 7 to 1.

Agenda 13 – Correlating Committee work session on these agenda items that carried over to February 8, 2013.

Agenda Item 16 a – withdrawn by the Pro Board

Agenda Item 16 b – General discussion about a request to the research foundation for the need for a standard or exterior firefighting, frontier firefighting, or rural firefighting standard.

Agenda Item 17 – There will be no face-to-face meeting on June 9, 2013. There will be a May 1, 1300 hours EDT Correlating Committee conference call.

1700 – Adjourned for the day

February 8, 2013

0800 – Introduction of California guests at the meeting

Continued discussion about the Standard Operating Procedure manual. Motion by Shelton, second by Forsman to approve the revisions to the SOP manual. Motion carried.

1007 – Meeting adjourned

Respectfully submitted by Preston and Piechota
AGENDA
ATTACHMENT B
3.4.2 Authority. A Correlating Committee shall direct the activities of the Technical Committees that have primary responsibility for the development and revision of NFPA Standards assigned to them. The Correlating Committee shall be responsible for resolving conflicts, achieving correlation among the recommendations of the Technical Committees, correcting errors and omissions, and ensuring that the Committee activities have been conducted in accordance with these Regulations and any approved Supplemental Operating Procedures (see 3.3.8). The Correlating Committee shall have the authority to choose between alternatives presented by the Technical Committees and to write text, but only as necessary for correlation, consistency, and the correction of errors and omissions.

3.4.3 Responsibilities. The responsibilities of a Correlating Committee are:

(a) Resolving conflicts within or between NFPA Standards

(b) Recommending the resolution of conflicts between overlapping functions in Technical Committee Scopes

(c) Recommending the establishment of new or the discharging of existing Technical Committees and proposing new Scopes or changes to existing Scopes of Technical Committees

(d) Recommending changes in membership to obtain or improve representation on a Technical Committee

(e) Correlating the scheduling of the Reports from the Technical Committees operating under its responsibility

(f) Notifying a Technical Committee of its failure to comply with these Regulations or the Manual of Style for NFPA Technical Committee Documents

(g) Determining whether the Technical Committee has given due consideration to all evidence presented to it in connection with the preparation of its Report, including all comments relating to negative votes

(h) Establishing Supplemental Operating Procedures, if desired (see 3.3.8)

(i) Performing such other or different duties as the Standards Council may from time to time assign
4.4.11 Correlating Committee Review and Action on Public Comments and the Second Draft.

4.4.11.1 Review and Permitted Actions. Where Technical Committee activities are managed and coordinated by a Correlating Committee, the Correlating Committee shall review the Public Comments and the Second Draft as balloted by the Technical Committees under its responsibility and take appropriate action within the limits of its authority and responsibilities, as set forth in 3.4.2 and 3.4.3, by creating Correlating Revisions and revising actions on Comments as set forth in 4.4.11.1.1.

4.4.11.2 Correlating Revisions. The Correlating Committee may, within the limits of its authority, revise the Second Draft by creating Second Correlating Revisions, with associated Correlating Statements, that delete or modify Second Revisions or other text in the Second Draft. To the extent that a Second Correlating Revision modifies or deletes a Second Revision or any portion of the Second Revision, the original text of the Second Revision or affected portion thereof shall be redesignated as a Committee Comment and shall be published in the Comment section of the Second Draft Report along with a note indicating that the text contained in the Committee Comment has been modified or deleted from the Second Draft as a result of a Second Correlating Revision.

4.4.11.2.1 Size and Content of Second Correlating Revisions.

(a) An Individual Revision can contain multiple changes to the Standard text, provided that the changes are contained within a contiguous portion of the Standard that is no smaller than an individual numbered or lettered section or larger than a chapter.

(b) Exception for Global Revisions. Where the Correlating Committee wishes to revise a term or phrase throughout an NFPA Standard so as to achieve editorial consistency or correlation, the Committee may do so through a Global Revision.

4.4.11.3 Change in Actions on Comments. Where a Second Correlating Revision is inconsistent with the Technical Committee's Committee Action on any Comment, the Action shall be changed to make it consistent with the Second Correlating Revision, and a note shall be provided with the new Action indicating that it has been changed at the direction of the Correlating Committee to be consistent with a Second Correlating Revision.

4.4.11.4 Preparation of Second Draft for Balloting.

4.4.11.4.1 When the Correlating Committee has completed its work, NFPA Staff shall prepare the complete Second Draft showing individual Second Correlating Revisions and their associated Committee Statements for Balloting.
AGENDA
ATTACHMENT C
The verb "ensure" appears in many instances throughout the document. First occurrence is 5.3.4. This term carries responsibility to execute an action that could extend to situations where the ability to ensure is beyond the practitioner's control, yet the practitioner could still be held responsible under the standard. A more appropriate verb would be "verify", which still requires implementation of the program, but limits the practitioner's responsibility to within the practitioner's field of influence.

Alternately, "ensure" could be defined explicitly in the standard to limit the liability of the practitioner.

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Statement of Problem and Substantiation for Public Comment

Use of a particular term creates potential for legal liability in situations that could be beyond the practitioner's control. Changing the term or alternately, explicitly defining its meaning to limit the liability, will assist to minimize such liability

Submitter Information Verification

Submitter Full Name: Robert Deom
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Street Address:
City:
State:
Zip:
Submittal Date: Tue Oct 30 11:03:09 EDT 2012

Committee Statement
Committee Action: Accepted
Resolution: SR-28-NFPA 1521-2013
Statement: The committee understands the submitters intent of the public comment and, where the committee felt appropriate, they made the suggested changes already in the text. However, there are instances where the committee has chosen to leave the word "ensure" due to the manner in which the JPR has been written and what the candidate will be tested on.

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New Definition

Blowup: A wildland fire term used to describe the explosive and sustained increase in fire intensity due to wind, fuel characteristics, or topographical features.

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

Submitter Full Name: David Bernzweig
Organization: Columbus (OH) Division of Fire
Street Address: 
City: 
State: 
Zip: 
Submittal Date: Thu Nov 15 22:05:37 EST 2012

Committee Statement

Committee Action:Rejected
Resolution: This term is not used in the document.

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New Definition

Flaring: A wildland fire term used to describe a short-lived rise in flame lengths due to wind, fuel characteristics, or topographical features. Flaring is a warning sign of blowup potential.

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

Submitter Full Name: David Bernzweig
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Street Address: 
City: 
State: 
Zip: 
Submittal Date: Thu Nov 15 22:08:08 EST 2012

Committee Statement

Committee Action: Rejected
Resolution: This term is not used in the document.

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http://submittals.nfpa.org/TerraViewWeb/ContentFetcher?commentParams=%28Comment... 8/14/2013
New Definition

Hostile Fire Event: A general descriptor for myriad fire phenomena including flashover, backdraft, smoke-explosion, flameover, and rapid fire spread.

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

Submitter Full Name: David Bernzweig
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City: 
State: 
Zip: 
Submittal Date: Thu Nov 15 22:10:05 EST 2012

Committee Statement

Committee Action: Rejected but see related SR
Resolution: SR-3-NFPA 1521-2013
Statement: The committee has made some editorial changes to the submitted comment.

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Public Comment No. 23-NFPA 1521-2012 [New Section after 3.3.36]

New Definition
Operational Factors: The collection of strategic/tactical assignments, positions, equipment, and processes being utilized by incident-handling personnel.

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

Submitter Full Name: David Bernzweig
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City: 
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Zip: 
Submittal Date: Thu Nov 15 22:13:20 EST 2012

Committee Statement

Committee Action: Rejected but see related SR
Resolution: SR-8-NFPA 1521-2013
Statement: Editorial in nature.

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Chapter 5  Job Performance Requirements (JPRs) of the Health and Safety Officer

5.1  Scope

5.2  Purpose

5.2.1  The purpose of this chapter shall be to specify minimum job performance requirements for personnel performing the role of fire department health and safety officer.

5.2.2  It shall not be the intent of this chapter to restrict any jurisdiction from exceeding these requirements.

5.3  General

5.3.1  The job performance requirements shall be accomplished in accordance with the requirements of the authority having jurisdiction; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; and NFPA 1561, Standard on Emergency Services Incident Management System and Command Safety.

5.3.2  It shall not be required that the job performance requirements be mastered in the order they appear.

5.3.2.1  The authority having jurisdiction (AHJ) shall establish instructional priority and the training program content to prepare individuals to meet the job performance requirements of this standard.

5.3.3  Performance of each requirement of this chapter shall be evaluated by individuals approved by the AHJ.

5.3.4  The AHJ shall establish a specific qualification process that identifies the steps to prepare a candidate for qualification at the level the candidate will be expected to perform under the auspices of that jurisdiction and to prepare the candidate in a manner consistent and compatible with the National Incident Management System (NIMS).

5.3.5  Prior to being certified as fire department health and safety officer, the candidate shall meet the general knowledge and skill requirements and the job performance requirements of this chapter necessary to function safely at the kind and type(s) of incident or planned event at which a health and safety officer would operate.

5.3.6  The job performance requirements in this chapter are consistent with the Safety Officer Core Competencies published as part of the NIMS.

5.3.7  Wherever in this chapter the terms rules, regulations, procedures, supplies, apparatus, and equipment are referred to, it is implied that they are those of the AHJ.

5.4  Risk Management
5.4.1 * —
Develop an official written risk management plan by determining the types of
risks and categorizing those risks, given injury reports, vehicle accident
reports, and OSHA and the state’s Department of Labor investigations, so that
the exposure to situations and occurrences that could have harmful or
undesirable consequences on the organization and the individual member is
minimized. The risk management plan shall cover the risks specified in
Chapter 4 of NFPA 1500, Standard on Fire Department Occupational Safety
and Health Program.

(A) Requisite Knowledge—
Standard operating procedures (guides)(SOP/Gs), regulations, and standards
as determined by the AHJ; fire behavior, building construction, personal
protective equipment, and clothing; and national and local injury and health
data.

(B) Requisite Skills—
Ability to identify risks; develop goals, objectives, and action plans to manage
those risks; analyze data; perform cost-benefit analyses.

5.4.2 —
Implement the risk management plan throughout the organization, given
electronic or printed copies of the risk management plan, so that the safest
work environment for the members of the organization is created.

(A) Requisite Knowledge—
SOP/Gs, regulations, and standards as determined by AHJ; fire behavior,
building construction, personal protective equipment, and clothing; and
national and local injury and health data.

(B) Requisite Skills—
Ability to identify risks; develop goals, objectives, and action plans to manage
those risks; analyze data; perform cost-benefit analyses.

5.4.3 * —
Manage the safety and health programs derived from the risk management
plan, given process and outcome evaluations of the plan, so that
modifications to the plan can be made.

(A) Requisite Knowledge—
SOP/Gs, regulations, and standards as determined by AHJ; fire behavior,
building construction, personal protective equipment, and clothing; and
national and local injury and health data.

(B) Requisite Skills—
Ability to identify risks; develop goals, objectives, and action plans to manage
those risks; analyze data; perform cost-benefit analyses.

5.4.4 —
Communicate safety aspects of the risk management plan, given the
integration of safety programs into training and education programs, so that
the training programs offered have a basis in operating safely and safety
initiatives are circulated through the organization’s training programs.

(A) Requisite Knowledge—
AHJ risk management plan, resources available from Fire/EMS professional
organizations, USFA, NFPA, and colleges and universities.

(B) Requisite Skills—
The ability to educate and integrate health and safety aspects of the risk
management program through training programs.

5.4.5 * —
Generate electronic or printed copies of the risk management plan given
reproduction facilities and/or computer resources so that the risk
management plan is available to all fire department members.

(A) Requisite Knowledge—
5.4.6 * __

(H)  Requisite Skills.

Delegate responsibility for distribution of the risk management plan.

Develop safety and health programs addressing identified risks from the risk management plan, given a copy of the risk management plan, the organizational health and safety policy, a record-keeping system for data analysis, and a health and safety committee, so that the health and safety programs are implemented and maintained.

(A)  Requisite Knowledge.

Risks associated with administration, facilities, training, vehicle operation (both emergency and non-emergency), protective clothing and equipment, operations at emergency incidents, operations at non-emergency incidents, and other related activities.

(B)  Requisite Skills.

Risk identification, risk evaluation, establishment of priorities for action (frequency and severity), risk control techniques, and risk management monitoring (process and outcome evaluations).

5.4.7 * __

Monitor the risk management plan, given an evaluation process that compares the organization before and after implementation of the safety program, so that it can be determined if the safety program is effective, to gauge the response to the program from the organization’s member’s perspective, and to facilitate program changes.

(A)  Requisite Knowledge.

Process and outcome evaluation.

(B)  Requisite Skills.

Compiling and analyzing injury data, obtaining feedback from personnel, and observing performance and behavior changes.

5.4.8 __

Revisit the risk management plan annually, given the AHJ records and reports on injuries and investigations, so that the risks are identified, evaluated, and controlled through the health and safety programs.

(A)  Requisite Knowledge.

Process and outcome evaluation processes.

(B)  Requisite Skills.

Compiling and analyzing injury data, obtaining feedback from personnel, and observing performance and behavior changes.

5.4.9 * __

Develop an incident risk management plan, given the fire department’s incident management system, so that the organization can provide the highest level of accountability and effectiveness, maintain effective span of control, and provide a framework for breaking a major incident into manageable tasks.

(A)  Requisite Knowledge.


(B)  Requisite Skills.

Incorporate the roles of the command staff and general staff into the risk management plan.
Develop a risk management plan, given the requirements of Chapter 8 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, so that the risk management plan incorporates incident management at all emergency operations.

(A) Requisite Knowledge. HSPD-5 (NIMS) and HSPD-8 (NRF), other applicable federal, state, and local regulations; and applicable NFPA standards.

(B) Requisite Skills. Incorporate the roles of the command staff and general staff into the risk management plan.

5.5 Laws, Codes, and Standards.

5.5.1 * Develop, maintain, and present SOP/Gs pertaining to the fire department occupational safety and health program to the fire chief or the fire chief's designated representative, given health and safety laws, codes, and standards, so that the SOP/Gs follow health and safety laws, codes, and standards.

(A) Requisite Knowledge.

Applicable health and safety laws, codes, and standards pertaining to the fire service; standardized format or template for writing SOP/Gs; criteria to determine effectiveness of fire department operations and training practices; and a list of required safety subjects to address, including selection criteria.

(B) Requisite Skills.

Writing and critical thinking skills; ability to understand health and safety laws, codes, and standards pertaining to the fire service; and ability to transcribe applicable material into SOP/Gs.

5.5.2 * Assess and report semiannually to the fire chief or the fire chief's designated representative the adequacy and effectiveness of and compliance with applicable health and safety laws, codes, standards, SOP/Gs, and recordkeeping practices, given access to current state/provincial and federal safety and health legislation, codes, regulations, and applicable standards and a thorough knowledge of operations, policies and training, so that it can be determined that the fire department is in compliance with the applicable laws, codes, and standards.

(A) Requisite Knowledge.

Applicable laws, codes, and standards pertaining to the fire service; the fire department's SOP/Gs.

(B) Requisite Skills.

Writing and critical thinking and the ability to understand health and safety laws, codes, and standards pertaining to the fire service.

5.5.3 * Develop the role of the health and safety officer, given compliance with the applicable health and safety laws, codes, standards, and SOP/Gs, so that it can be determined that the fire department is in compliance with the applicable laws, codes, and standards.

(A) Requisite Knowledge.

Applicable laws, codes, and standards pertaining to the fire service; the fire department's SOP/Gs.

(B) Requisite Skills.

Ability to understand health and safety laws, codes, and standards pertaining to the fire service.

5.6 Training and Education.

5.6.1 *
Develop and distribute health and safety information for the education of fire department members, given NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, SOP/Gs, and health and safety policies used by the AHJ, so that members can be trained in the organization's health and safety procedures relating to all fire department operations and functions.

(A) Requisite Knowledge.

SOP/Gs and health and safety policies used by the AHJ; NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*; and AHJ codes, standards, and regulations that relate to the fire department occupational safety and health program.

(B) Requisite Skills.

Analyzing information from different data sources; interpersonal and organizational interaction.

5.6.2

Evaluate the training of fire department members on the organization’s health and safety procedures, given NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*; SOP/Gs; and the health and safety policies used by the AHJ, so that members operate safely at all fire department operations and functions.

(A) Requisite Knowledge.

SOP/Gs and health and safety policies used by the AHJ; NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*; AHJ codes, standards, and regulations that relate to the fire department occupational safety and health program.

(B) Requisite Skills.

Analyzing information from different data sources; interpersonal and organizational interaction.

5.6.3

Develop corrective actions to submit through the chain of command to the fire chief, given a list of recommendations arising from the investigation of accidents, injuries, occupational deaths, illnesses, and exposures and the observation of incident scene activities, so that future occurrences of these problems are eliminated or reduced.

(A) Requisite Knowledge.

Applicable federal, state, and local laws, standards, and regulations; SOP/Gs and health and safety policies used by the AHJ; life-threatening and non-life-threatening occupational injuries and illnesses; procedures for conducting, documenting, recording, and reporting safety and health investigations, procedures for preserving evidence and documentation, and the technical knowledge pertinent to the incident(s) under investigation.

(B) Requisite Skills.

Analyzing information from different data sources; interacting with or interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining corrections to prevent similar future losses.

5.6.4

Develop live training evolution procedures to be incorporated into an SOP/G, given a list of live training evolutions utilized by the AHJ, so that safety supervision is provided at all live training activities.

(A) Requisite Knowledge.
SOP/Gs and health and safety policies used by the AHJ; live training evolutions used by the AHJ; life-threatening and non-life-threatening occupational injuries and illnesses.

(B) Requisite Skills.

Ability to develop SOP/Gs, use resources for determining code compliance, and complete reporting and documentation requirements.

6.6.5

Develop live fire training evolution procedures to be incorporated into an SOP/G, given a list of NFPA 1403, *Standard on Live Fire Training Evolutions*, requirements, so that safety supervisors can be trained to provide safety supervision at all live fire training activities.

(A) Requisite Knowledge.

SOP/Gs and health and safety policies used by the AHJ, live training evolutions used by the AHJ, and life-threatening and non-life-threatening occupational injuries and illnesses.

(B) Requisite Skills.

Ability to develop SOP/Gs, use resources for determining code compliance, and complete reporting and documentation requirements.

6.6.6

Develop live fire training evolution procedures to be incorporated into an SOP/G, given a list of NFPA 1403, *Standard on Live Fire Training Evolutions*, requirements, so that safety supervision is provided at all live fire training activities.

(A) Requisite Knowledge.

SOP/Gs and health and safety policies used by the AHJ, live training evolutions used by the AHJ, and life-threatening and non-life-threatening occupational injuries and illnesses.

(B) Requisite Skills.

Ability to develop SOP/Gs, use resources for determining code compliance, and complete reporting and documentation requirements.

6.6.7

Conduct a preburn inspection of an acquired structure to be utilized for live fire training, given a list of NFPA 1403, *Standard on Live Fire Training Evolutions*, requirements, so that the requirements of NFPA 1403, *Standard on Live Fire Training Evolutions*, are met.

(A) Requisite Knowledge.

SOP/Gs and health and safety policies used by the AHJ, live training evolutions used by the AHJ, and life-threatening and non-life-threatening occupational injuries and illnesses.

(B) Requisite Skills.

Ability to develop SOP/Gs, use resources for determining code compliance, and complete reporting and documentation requirements.

6.7 Accident Prevention.

5.7.1

Manage the fire department’s accident prevention program, given safe work practices, training, and testing of vehicle drivers and operators; surveys; and reports, so that the program meets the requirements specified in Section 5.4, safety work practices are complied with, and recommendations are forwarded to the fire chief.

(A) Requisite Knowledge.

Understand the necessary components of a fire department accident prevention program, and the procedures for developing recommendations based on fire department audits, incident reports, surveys, accident reports, injury reports, inspection reports, and other applicable department information.
(B) **Requisite Skills**

Analyzing the components necessary to be included in a fire department accident prevention program based on the requirements of Section 5.8; analyzing information from different sources; interacting with or interviewing personnel associated with the various aspects of the fire department that relate to operations, apparatus, equipment, fire department facilities, and SOP/Gs.

5.7.2 *

Provide training in safe work practices for emergency and nonemergency operations given the fire department’s risk management plan, SOP/Gs, and training curriculum, so that members can perform their job tasks in a safe and effective manner.

(A) **Requisite Knowledge**

Procedures for conducting job tasks based on department SOP/Gs, the department’s risk management plan, health and safety policies used by the AHJ, and the technical knowledge pertinent to perform various job tasks.

(B) **Requisite Skills**

Analyzing information from different sources, interacting with or interviewing personnel associated with training of department members, and delivery methods of instructional materials.

5.7.3

Develop an accident prevention program that addresses the necessary components for training and testing all fire department drivers and operators, given fire department policy and applicable traffic laws, so that fire department vehicle operators are proficient in the safe operation of fire apparatus.

(A) **Requisite Knowledge**

Procedures for driving and operating fire apparatus based on department SOP/Gs, health and safety policies used by the AHJ, and applicable traffic laws.

(B) **Requisite Skills**

Analyzing information from different sources, interacting with or interviewing personnel associated with training of department members, and delivery methods of instructional materials.

5.7.4 *

Conduct a periodic safety audit, given fire department operations, apparatus, equipment, facilities, and SOP/Gs, so that safe work practices and procedures are maintained, and ensure compliance with federal, state/provincial, and local laws.

(A) **Requisite Knowledge**

Understand safe work practices and procedures for fire department operations, apparatus, equipment, and fire department facilities based on SOP/Gs and federal, state/provincial, and local laws.

(B) **Requisite Skills**

Analyzing information from different sources; interacting with or interviewing personnel associated with training of department members, and delivery methods of instructional materials.

5.8 **Accident Investigation, Procedures, and Review**

5.8.1
Conduct a safety and health investigation, given an incident or planned event in which there is an occupational injury, illness, exposure, fatality, near miss, or other potentially hazardous condition involving fire department members, and all accidents involving fire department vehicles, apparatus, equipment, or facilities, and the SOP/Gs and health and safety policies used by the AHJ, so that the facts and the root cause of the incident are correctly identified, deviations from SOP/Gs established by the AHJ and health and safety policies are noted, corrective recommendations are made for preventing similar losses in the future, and all information gathered in the investigation is documented, reported, and recorded according to policies established by the AHJ.

(A) Requisite Knowledge— Procedures for conducting, documenting, recording, and reporting a safety and health investigation, SOP/Gs and health and safety policies used by the AHJ, procedures for preserving evidence and documentation, and the technical knowledge pertinent to the incident under investigation, and federal, state/provincial, and local laws.

(B) Requisite Skills— Analyzing information from different data sources; interacting with or interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining recommendations to prevent similar future losses.

5.8.2— Develop safety and health procedures for treating and transporting members with injuries and illnesses to be incorporated into an SOP/G, given applicable documents and techniques provided by the AHJ, so that the SOP/G ensures that all life-threatening and non-life-threatening occupational injuries, illnesses, and exposures involving fire department members will receive immediate emergency medical care and transportation to the most appropriate medical or health care facility.

(A) Requisite Knowledge— SOP/Gs and health and safety policies used by the AHJ, life-threatening and non-life-threatening occupational injuries and illnesses, and the technical knowledge pertinent to developing and reviewing SOP/Gs and EMS policy and procedures.

(B) Requisite Skills— Analyzing information from different data sources; interacting with or interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining recommendations to prevent similar future losses.

5.8.3— Apply safety and health procedures for treating and transporting members with injuries and illnesses, given an incident or planned event, applicable documents, techniques, and SOP/Gs, so that all life-threatening occupational injuries and illnesses are provided immediate emergency medical care and transportation to the most appropriate medical facility, and non-life-threatening occupational injuries, illnesses, and exposures are treated at the most appropriate medical or health care facility.

(A) Requisite Knowledge— SOP/Gs and health and safety policies used by the AHJ, life-threatening and non-life-threatening occupational injuries and illnesses, and the technical knowledge pertinent to developing and reviewing SOP/Gs and EMS policy and procedures.

(B) Requisite Skills—
Analyzing information from different data sources; interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining recommendations to prevent similar future losses.

5.8.4
Develop accident and injury reporting and investigation procedures given an incident or planned event, applicable documents, techniques and SOP/Gs, and all applicable laws, regulations, and standards so that procedures are reviewed and all local, state/provincial, and federal requirements are met; documentation is completed; and recommendations for revision are made.

(A) Requisite Knowledge.
Procedures for developing and reviewing accident and injury reporting and investigation; SOP/Gs and health and safety policies used by the AHJ; all applicable federal, state/provincial, and local laws, regulations, and standards.

(B) Requisite Skills.
Analyzing information from different data sources; interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining recommendations to prevent similar future losses.

5.8.5
Conduct a post-incident analysis of the procedures employed during any unusual hazardous operation, given an incident or planned event, SOP/Gs established by the AHJ, necessary technical knowledge, and all applicable laws, regulations, and standards, so that risks to personnel are identified, reduced, or eliminated at future incidents and the AHJ SOP/Gs are reviewed and revised as needed.

(A) Requisite Knowledge.
Technology pertinent to safety and health for the incident type, including but not limited to confined space entry; heavy equipment operation; rigging and hoisting; building construction; structural collapse; excavation and shoring; use and application of personal protective equipment (PPE); chemical, biological, radiological, and physical (e.g., noise, heat stress) hazards; potential risks of extended work shifts (work-rest cycles); professionally accepted procedures and tools; fire safety; vehicle work zone safety; SOP/Gs and health and safety policies used by the AHJ; and all applicable federal, state/provincial, and local laws, regulations, and standards.

(B) Requisite Skills.
Recognizing hazards at an emergency scene, communicating hazard information to personnel directly or through the ICP, determining methods for correcting health and safety hazards, reviewing actions taken to ensure policies were followed, and formulating recommendations for the post-incident analysis.

5.9 Records Management and Data Analysis

6.9.1 *
Manage the collection and analysis of data related to accidents, occupational deaths, injuries, illnesses, and exposures to infectious agents and communicable diseases, given the requirements of Chapter 4 of NFPA 4500, *Standard on Fire Department Occupational Safety and Health Program*, so that the data summarize fire department experience in different categories; comparisons can be made with other fire departments, national trends, and occupations and industries; and the information can be accessed for future reference and use.

(A) Requisite Knowledge.
Procedures for tabulating and compiling accident and injury data; SOP/Gs and health and safety policies used by the AHJ.

(B) Requisite Skills.
Basic statistical analysis in spreadsheets or other appropriate software; identifying cause(s) of trends in injury, death, or property damage; and determining corrections to prevent similar future losses.

6.9.2
Develop, document, and maintain corrective actions to mitigate health and safety hazards and unsafe practices, given identification of such hazards from accident and injury reports and any other investigation reports, so that root causes are determined and controls can be put in place to help prevent future occurrences.

(A) Requisite Knowledge.
Procedures for developing and reviewing accident and injury reports and corrective actions; SOP/Gs and health and safety policies used by the AHJ; records management policies of the AHJ.

(B) Requisite Skills.
Writing reports and identifying root cause(s) of injury, death, or property damage; basic records management.

5.9.3
Maintain records regarding the periodic inspection and service testing of fire apparatus and equipment, inspection and service testing of personal safety equipment, and fire department facilities, given NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so that records are accessible and in a format that can be easily analyzed.

(A) Requisite Knowledge.
Procedures for management of records.

(B) Requisite Skills.
Records management and organization.

5.9.4
Maintain records of control measures implemented to enhance health and safety procedures and accident prevention methods, given evidence of control measures implemented, so that records of control measures are accessible and in a format that is appropriate for analysis.

(A) Requisite Knowledge.
Procedures for record keeping.

(B) Requisite Skills.
Records management.

5.9.5
Produce semiannually a report to the fire chief on fire department accidents, occupational injuries, illnesses, deaths, and exposures, given the accident and injury data, so that a set of recommendations is created.

(A) Requisite Knowledge.
Procedures for developing recommendations based on fire department audits, incident reports, surveys, accident reports, injury reports, inspection reports, and other applicable department information.

(B) Requisite Skills.
Analyzing information from different sources and interacting with or interviewing personnel associated with the various aspects of the fire department that relate to operations, apparatus, equipment, fire department facilities, and SOP/Gs.

5.10 Apparatus and Equipment
5.10.2 Research new fire apparatus technology and develop new specifications or revise existing specifications for given technological improvements, risks identified in the risk management plan, available resources, and existing fire apparatus specifications so that the specifications meet the fire department needs identified in the risk management plan, are compliant with federal, state/provincial, and local laws, appropriate revisions are recommended, and the specifications are properly documented.

(A) Requisite Knowledge.
Chapter 6 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial, and local laws that relate to fire apparatus specifications; current fire apparatus specification procedures; resources for conducting fire apparatus specifications; equipment necessary for conducting fire apparatus specifications; and procedures, equipment, and safety precautions for conducting fire apparatus specifications.

(B) Requisite Skills.
Ability to develop fire apparatus specifications, use resources for determining code compliance, and complete reporting and documentation requirements.

5.10.3 Research protective clothing and equipment technology and develop new specifications or revise existing specifications, given technological improvements, risks identified in the risk management plan, available resources, and existing protective clothing and equipment specifications, so that the specifications meet the fire department needs identified in the risk management plan and are compliant with federal, state/provincial, and local laws; appropriate revisions are recommended; and the specifications are properly documented.

(A) Requisite Knowledge.
Chapter 7 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial, and local laws that relate to fire equipment specifications; current fire equipment specification procedures; current state of technology in the appropriate areas of protective clothing and equipment; procedures, equipment, and safety precautions for the use of protective clothing and equipment; and the organization’s risk management plan.

(B) Requisite Skills.
Ability to develop protective clothing and equipment specifications, use resources for determining code compliance, and complete reporting and documentation requirements.
Assist with the development of recommendations for new fire equipment based on results of evaluations, given applicable provisions of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so that the recommendations for new equipment are accepted and approved by the AHJ.

(A) Requisite Knowledge.
Chapter 6 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial, and local laws that relate to fire equipment; and current fire equipment evaluation procedures and results.

(B) Requisite Skills.
Ability to conduct fire equipment recommendations, use resources for determining code compliance and complete reporting and documentation requirements.

5.10.5
Assist with the development of recommendations for service testing of apparatus and equipment based on results of evaluations, given applicable provisions of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so that the recommendations for service testing of apparatus and equipment are accepted and approved by the AHJ.

(A) Requisite Knowledge.
Chapter 6 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial, and local laws that relate to service testing of apparatus and equipment; and current service testing of apparatus and equipment procedures and results.

(B) Requisite Skills.
Ability to conduct service testing of apparatus and equipment recommendations, use resources for determining code compliance, complete reporting and documentation requirements.

5.10.6
Develop, implement, and maintain a protective clothing and equipment program that provides for the selection, care, maintenance, storage, and periodic inspection and evaluation of all protective clothing and equipment, given NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, SOP/Gs established by the AHJ, and all applicable laws, regulations, and standards, so that protective clothing and equipment are safe for use.

(A) Requisite Knowledge.
Chapter 7 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial, and local laws that relate to protective clothing and equipment programs.

(B) Requisite Skills.
Ability to develop protective clothing and equipment program, use resources for determining code compliance, complete reporting and documentation requirements.

5.11 Facility Inspection.

5.11.1
Initiate and coordinate a health and safety inspection program for a fire department facility, given the requirements of Chapter 9 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and a facility that requires an inspection and available resources so that the appropriate inspection procedures are selected and implemented, all applicable code violations and safety and health hazards are noted and correctly documented, the inspection is conducted safely, all the required reports are correctly completed, and the violations are corrected in a prompt and timely manner.

(A) Requisite Knowledge.
Chapter 9 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial, and local laws; current facility inspection procedures; resources for conducting a facility inspection; equipment necessary for conducting a facility inspection; and the procedures, equipment, and safety precautions for conducting facility inspections.

(B) Requisite Skills—
Ability to acquire resources to initiate and coordinate a facility inspection, use resources for determining code compliance, complete reporting and documentation requirements.

5.12 Health Maintenance—

5.12.1—
Analyze the fire department health maintenance program, given the medical and physical requirements of Chapter 10 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so that the program meets the requirements of Chapter 10 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and include medical, physical performance, and health and fitness requirements, as well as a health database, infectious control procedures, a fire department physician, and fitness-for-duty evaluations.

(A) Requisite Knowledge—
Chapters 10, 11, and 12 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; AHJ codes, standards, and regulations that relate to a fire department health maintenance program; the current fire department health maintenance program; medical surveillance, wellness programs, physical fitness, nutrition, and injury and illness rehabilitation programs; resources for conducting a fire department health maintenance program; equipment necessary for a fire department health maintenance program; and procedures, equipment, and safety precautions for a fire department health maintenance program and critical incident stress programs.

(B) Requisite Skills—
Analyze and incorporate information from health maintenance programs; interact with or interview personnel associated with health and wellness programs.

5.13 Liaison—

5.13.1—
The health and safety officer shall be a member of the fire department occupational health and safety committee.

5.13.2—
Report and submit recommendations from the fire department occupational health and safety committee, given SOP/Gs and health and safety policies used by the AHJ so that the Fire Chief or the Fire Chief’s designated representative are briefed on the recommendations.

(A) Requisite Knowledge—
SOP/Gs and health and safety policies used by the AHJ; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; AHJ codes, standards, and regulations that relate to the fire department occupational safety and health committee.

(B) Requisite Skills—
Acquiring recommendations from the health and safety committee; evaluating the recommendations and communicating them in such a manner that recommendations are successfully up-channelled and objectives are met.
5.13.3 Provide information and assistance for adverse effects on fire department operations, given an incident or planned event, the fire department’s risk management plan, and SOP/Gs, so that that members can perform their job tasks in a safe and effective manner.

(A) Requisite Knowledge

Procedures for conducting job tasks based on department SOP/Gs, the department’s risk management plan, health and safety policies used by the AHJ, and the technical knowledge pertinent to perform various job tasks.

(B) Requisite Skills

Ability to evaluate and prioritize hazards, critical thinking to analyze the hazard, select the most appropriate control measure, and evaluate its effectiveness in enhancing firefighter safety.

5.13.4 Assist with the development of recommendations for changes in equipment, procedures, and methods based on results of evaluations, given recommendations from the fire department occupational safety and health committee, safety audits, analysis of injury statistics or other reliable sources of hazardous conditions or injury data, so that the recommendations for equipment, procedures, and methods are accepted and approved in accordance with the AHJ.

(A) Requisite Knowledge

Hazard recognition, evaluation and control, health and safety recommendations, use of safety audits, department injury statistics.

(B) Requisite Skills

Ability to interpret injury statistics, safety plan development, interpersonal skills, and report writing.

5.13.5 Assist the fire department physician with administering needed medical advice and treatment to the members of the fire department, given access to fire department members, understanding of occupational medicine for the fire service, and the IAFF/IAFC Wellness Initiative, so that members’ health and safety are protected.

(A) Requisite Knowledge

Medical requirements for members as per NFPA 1582, Standard on Comprehensive Occupational Medical Program for Fire Departments, IAFC/IAFF Joint Voluntary, Non-Punitive Wellness program, health hazards associated with fire fighting, chemistry of fire, limitations of PPE, and current occupational safety and health practices.

(B) Requisite Skills

Occupational medicine, diagnostic skills, current preventive medical practices, and interpersonal skills.

5.14 Occupational Safety and Health Committee

5.14.1 Ensure the establishment of a health and safety committee, given the risk management plan, the organization’s health and safety policy, and a record-keeping system for data analysis so that the committee is composed of members identified from NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, Section 4.5.1.1.

(A) Requisite Knowledge

Duties of the safety committee, with a clear understanding of their roles and responsibilities, SOP/Gs, and the organization’s health and safety policy.

(B) Requisite Skills

Interpersonal and organizational skills to establish a safety committee with representation from all levels of the organization.
5.14.2—
Serve as a member of the occupational safety and health committee, given the appointment by the Fire Chief or AHJ as the designated health and safety officer so that the requirements of NFPA 1500—Standard on Fire Department Occupational Safety and Health Program, Section 4.5, are met.

(A) Requisite Knowledge—
Duties of the safety committee, with a clear understanding of their roles and responsibilities, SOP/Gs, the organization’s health and safety policy, and NFPA 1500—Standard on Fire Department Occupational Safety and Health Program; and NFPA 1581—Standard on Fire Department Infection Control, are met.

(B) Requisite Skills—
Ability to conduct research, develop recommendations, and study and review materials pertaining to occupational safety and health within the fire department.

5.15 Infection Control

5.15.1—
Assess the fire department’s infection control program, given a copy of the department’s program, so that the requirements of 29 CFR 1910.1030, “Bloodborne Pathogens”; NFPA 1500—Standard on Fire Department Occupational Safety and Health Program; and NFPA 1581—Standard on Fire Department Infection Control, are met.

(A) Requisite Knowledge—

(B) Requisite Skills—
Acquire and document infection control procedures; coordination skills necessary to revise program. Ability to assess the requirements based on 29 CFR 1910.1030, “Bloodborne Pathogens”; NFPA 1500—Standard on Fire Department Occupational Safety and Health Program; and NFPA 1581—Standard on Fire Department Infection Control.

5.15.2—
Function as the fire department infection control officer, if an infection control officer position does not exist in the fire department, given the requirements of 29 CFR 1910.1030, “Bloodborne Pathogens”; NFPA 1500—Standard on Fire Department Occupational Safety and Health Program; and NFPA 1581—Standard on Fire Department Infection Control, so that the objectives of the infection control program as specified in NFPA 1581—Standard on Fire Department Infection Control, are met.

(A) Requisite Knowledge—
29 CFR 1910.1030, “Bloodborne Pathogens”; NFPA 1500—Standard on Fire Department Occupational Safety and Health Program; NFPA 1581—Standard on Fire Department Infection Control; and the roles and responsibilities of an infection control officer.

(B) Requisite Skills—
Acquiring and documenting infection control procedures; coordination skills necessary to revise the program; ability to assess the requirements based on 29 CFR 1910.1030, “Bloodborne Pathogens”; NFPA 1500—Standard on Fire Department Occupational Safety and Health Program; and NFPA 1581—Standard on Fire Department Infection Control.
Statement of Problem and Substantiation for Public Comment

This is the final text that the Task Group developed for Chapter 5.

Submitter Information Verification

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Committee Statement

Committee Action: Rejected but see related SR  
Resolution: SR-59-NFPA 1521-2013  
Statement: The committee has rewritten the document and this chapter was renumbered to Chapter 4 because existing Chapter 4 has been moved to Annex E. Changes were extensive, so whole chapter is being shown as new in lieu of legislative mark-up. Related Annex material has been renumbered appropriately. Additional new Annex material is attached, with instructions for deletions and minor editorial changes to other Annex sections.

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By checking this box I affirm that I am Scott Kerwood, and I agree to be legally bound by the above Copyright Assignment and the terms and conditions contained therein. I understand and intend that, by checking this box, I am creating an electronic signature that will, upon my submission of this form, have the same legal force and effect as a handwritten signature.
5.1 Scope. This chapter shall identify the minimum job performance requirements (JPRs) for personnel performing roles of fire department health and safety officer.

5.2 Purpose.

5.2.1 The purpose of this chapter shall be to specify minimum job performance requirements for personnel performing the role of fire department health and safety officer.

5.2.2 It shall not be the intent of this chapter to restrict any jurisdiction from exceeding these requirements.

5.3 General.

5.3.1 The job performance requirements shall be accomplished in accordance with the requirements of the authority having jurisdiction; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; and NFPA 1561, Standard on Emergency Services Incident Management System and Command Safety.

5.3.2* It shall not be required that the job performance requirements be mastered in the order they appear.

5.3.2.1 The authority having jurisdiction (AHJ) shall establish instructional priority and the training program content to prepare individuals to meet the job performance requirements of this standard.

5.3.3* Performance of each requirement of this chapter shall be evaluated by individuals approved by the AHJ.

5.3.4* The AHJ shall establish a specific qualification process that identifies the steps to prepare a candidate for qualification at the level the candidate will be expected to perform under the auspices of that jurisdiction and to prepare the candidate in a manner consistent and compatible with the National Incident Management System (NIMS).

5.3.5 Prior to being certified as fire department health and safety officer contained in this chapter, the candidate shall meet the general knowledge and skill requirements and the job performance requirements of this chapter.
necessary to function safely at the kind and type(s) of incident or planned event at which the candidate would operate.

5.3.6 Wherever in this chapter the terms rules, regulations, procedures, supplies, apparatus, and equipment are referred to, it is implied that they are those of the AHJ.

5.3.7 The health and safety officer shall be a member of the fire department occupational health and safety committee.

5.4 Risk Management.

5.4.1* Develop an organizational risk management plan that addresses the risks specified in Chapter 4, Fire Department Administration, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, given injury reports, vehicle accident reports. Chapter 4, Fire Department Administration, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and OSHA/State Department of Labor investigations, so that risks are determined and categorized, the harmful situations and consequences are minimized.


(B) Requisite Skills. Ability to identify risks, develop goals, objectives, and action plans to manage those risks; analyze data; perform cost-benefit analysis.

5.4.2 Manage an organizational risk management plan, given an organization, organizational activities, a risk management plan, a communications method for distributing the plan, so that the plan is communicated to the members of the organization, elements of the plan are integrated in the organizational operation, need for modifications are identified, and the modifications are implemented.

(A) Requisite Knowledge. Standard operating procedures (guidelines), regulations and standards as determined by AHJ, fire behavior, building construction, personal protective equipment and clothing, hazards associated with various types of emergency and non-emergency locations, national and local injury and health data, and communications methods used by the AHJ.

(B) Requisite Skills. Ability to identify risks, develop goals, objectives, and action plans to manage those risks; analyze data; perform cost-benefit analysis;
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compiling and analyzing injury data, obtaining feedback from personnel, and observing performance and behavior changes; revise plans and communicate the revisions.

5.4.3 Develop safety provisions of the organization's risk management plan into training and education programs, given a organizational risk management plan, a training or education program, and organizational goals and objectives, so that the organization's risk management program is implemented into the training and education program, records are maintained, and the training and education program meets the stated operational safety goals and objectives for emergency and non-emergency incidents.

(A) Requisite Knowledge. AHJ risk management plan; data analysis from AHJ safety and incident reports; local, state, and federal safety programs; organizations with safety programs; outreach sources available from professional organizations for safety development programs; risks associated with administration, facilities, training, vehicle operations (both emergency and non-emergency), protective clothing and equipment, operations at emergency incidents, operations at non-emergency incidents, and other related activities.

(B) Requisite Skills. Ability to educate and integrate health and safety aspects of the risk management program into training and education programs; risk identification, risk evaluation, establishment of priorities for action (frequency and severity), risk control techniques, and risk management monitoring (process and outcome evaluations).

5.4.4* Develop an operational risk management plan given the requirements of Chapter 8, Emergency Operations, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program so that an incident management system that meets the requirements of NFPA 1561, Standard on Emergency Services Incident Management System and Command Safety, is established with written standard operating procedures applying to all members involved in emergency operations.

(A) Requisite Knowledge. Incident management system for the AHJ, NFPA 1561, Standard on Emergency Services Incident Management System and Command Safety, HSPD -5 (NIMS) & HSPD-8 (NRF), other applicable federal, state and local regulations and applicable NFPA standards.

(B) Requisite Skills. Utilize the incident management system at all emergency incidents, drills, exercises; management of the incident and the safety of all members involved at the scene by the incident commander; divide the incident into tactical-level management components as incidents escalate in size and complexity, assign an incident safety officer to assess the incident scene for
hazards or potential hazards; establish the organization of the command staff and general staff to control the position and function of all members operating at the scene and to ensure that safety requirements are satisfied.

A.5.4.4
An operational risk management plan should assist the incident commander and fire department members in making sound, knowledgeable decisions in terms of declaring the risk mode (going offensive or defensive), specific strategies and accompanying tactics in order to reach operational objectives, assign human and equipment resources, and note specific safety considerations to mitigate the incident.

5.5 Laws, Codes, and Standards

5.5.1 Establish standard operating procedures/guidelines (SOP/G’s) for an occupational health and safety program, given an organization, applicable laws, codes, and standards, an established SOP/G’s format, so that the information is in a presentable format for fire department official review and adoption, the procedures and guidelines comply with applicable laws, codes, and standards, and the SOPs/G’s are reviewed and revised, as needed.

(A) Requisite Knowledge. Applicable health and safety laws, codes and standards pertaining to the fire service; standardized format or template for writing SOP/Gs; criteria to determine effectiveness of fire department operations and training practices; and a list of required safety subjects to address including selection criteria.

(B) Requisite Skills. Writing and critical thinking skills; ability to understand health and safety laws, codes, and standards pertaining to the fire service; and transcribe applicable material into SOP/G’s.

5.5.2* Assess and report the adequacy and effectiveness of compliance with occupational health and safety SOP/G’s, given a meeting location and attendees, access to current state/provincial and federal safety and health legislation, codes, regulations and standards and a thorough knowledge of organizational operations, policies and training, so that the meeting attendees are provided accurate information on the fire department’s compliance with the applicable laws, codes, standards and SOP/G’s.

(A) Requisite Knowledge. Applicable laws, codes and standards pertaining to the fire service, fire department’s SOP/Gs and a method for evaluating compliance
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(B) Requisite Skills. Writing and critical thinking; ability to understand health and safety laws, codes, and standards pertaining to the fire service, ability to present information in a presentation.

5.6 Training and Education

5.6.1 Develop and distribute health and safety information for the education of fire department members, given NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, SOP/G’s, and health and safety policies used by the AHJ, and a means for transmitting the information, so the information is clear, concise, and correct and so members are updated and trained on the information.

(A) Requisite Knowledge. SOP/Gs, health and safety policies used by the AHJ; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; AHJ codes, standards, and regulations that relate to the fire department occupational safety and health program.

(B) Requisite Skills. Analyzing information from different data sources; interpersonal and organizational interaction; using various means to transmit information.

5.6.2 Evaluate compliance with organizational health and safety procedures, given a fire department, NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, SOP/G’s, and health and safety policies used by the AHJ, so that all emergency and non-emergency functions are evaluated, level of compliance is documented and transmitted to the appropriate person.

(A) Requisite Knowledge. SOP/Gs, health and safety policies used by the AHJ; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; AHJ codes, standards, and regulations that relate to the fire department occupational safety and health program.

(B) Requisite Skills. Analyzing information from different data sources; interpersonal and organizational interaction; using various means to transmit information.

5.6.3 Develop a corrective action, given a list of recommendations arising from the investigation of accidents, injuries, occupational deaths, illnesses, exposures, observation of incident scene activities, and departmental policies and
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procedures, so that the action is documented and implemented according to departmental policies and procedures.

(A) Requisite Knowledge. Applicable federal, state, and local laws, standards, and regulations; SOPs and health and safety policies used by the AHJ; life-threatening and non-life-threatening occupational injuries and illnesses; procedures for conducting, documenting, recording, and reporting a safety and health investigation, procedures for preserving evidence and documentation, and the technical knowledge pertinent to the incident(s) under investigation.

(B) Requisite Skills. Analyzing information from different data sources; interacting with or interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining corrections to prevent similar future losses.

5.6.4 Develop a safety procedure for live fire training exercises, given a list of live training evolutions utilized by the AHJ, plans of instruction for live fire training exercises, and NFPA 1403, Standard on Live Fire Training Evolutions, so that safety procedures for instructors and students are documented, the requirements of NFPA 1403 are met, and the procedures are documented in the department’s standard operating procedures/guidelines.

(A) Requisite Knowledge. SOP/Gs and health and safety policies used by the AHJ; live training evolutions used by the AHJ; life-threatening and non-life-threatening occupational injuries and illnesses; requirements of NFPA 1403, Standard on Live Fire Training Evolutions requirements.

(B) Requisite Skills. Ability to develop SOP/Gs; use resources for determining code compliance; complete reporting and documentation requirements.

5.6.7 Conduct a preburn inspection of an acquired structure or live fire training facility to be utilized for live fire training, given an acquired structure or live fire training facility, a flashlight and/or other tools, and a list of NFPA 1403, Standard on Live Fire Training Evolutions requirements, so that the requirements of NFPA 1403, Standard on Live Fire Training Evolutions are met, the appropriateness of the structure for live fire exercises is determined, and any corrections to the structure are made prior to conducting an exercise.

Requisite Knowledge. SOP/Gs and health and safety policies used by the AHJ; live training evolutions used by the AHJ; life-threatening and non-life-threatening occupational injuries and illnesses; requirements of NFPA 1403, Standard on Live Fire Training Evolutions
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**Requisite Skills.** Ability to develop SOP/Gs; use resources for determining code compliance; complete reporting and documentation requirements; identify and abate hazards within an acquired life fire training structure.

5.7 Accident Prevention.

5.7.1* Manage a fire department accident prevention program by utilizing engineering controls, administrative policies and procedures, education, and personal protective equipment; given the fire department’s risk management plan, accident, occupational injury, and occupational illnesses data, and reports on department functions, so that the program meets the requirements as specified in Section 5.4 – Risk Management, and the work practices are identified and recommendations are forwarded to the fire chief for implementation.

**(A) Requisite Knowledge.** Understand the necessary components of a fire department accident prevention program; procedures for developing recommendations based upon fire department audits, incident reports, surveys, accident reports, occupational injury reports, inspection reports, and other applicable department information.

**(B) Requisite Skills.** Analyzing the components necessary to be included in a fire department accident prevention program based upon the requirements of Section 5.X. Analyzing information from different sources; interacting with or interviewing personnel associated with the various aspects of the fire department which relate to operations, apparatus, equipment, fire department facilities, and SOP/G’s.

A.5.7.1
In order to develop an accident prevention program, there are many components or elements that will need to be utilized to ensure that this program is effective. Listed are some examples which include but are not limited to areas that will be need to be utilized in order to reduce the frequency and severity of accidents, occupational injuries, and occupational illnesses:

a) Hazard recognition, assessment, control, monitoring, and evaluation;
b) Risk management principles and practices;
c) Review/evaluation of SOP/G’s;
d) Review of accident, occupational injury, and occupational illness data;
e) Facility inspections program (i.e., slips, trips, falls, cuts, etc.);
g) Health maintenance and monitoring program (i.e., wellness, fitness, nutrition, stress reduction, musculo-skeletal disorder prevention, exposure protection, etc.);
h) Review of department training and education programs;
5.7.2* Provide safe work practices training for emergency and nonemergency operations, given a risk management plan, SOP/G’s, and training curriculum, so that the training class is delivered and members are given the necessary information to perform their job tasks in accordance with the risk management plan.

(A) **Requisite Knowledge.** Procedures for conducting job task analysis based upon department standard operating procedures, the department’s risk management plan, health and safety policies used by the AHJ, and the technical knowledge pertinent to perform various job tasks.

(B) **Requisite Skills.** Analyzing information from different sources, interacting with or interviewing personnel associated with training of department members, and delivery methods of instructional materials.

5.7.3 Develop an accident prevention program for all fire department drivers and operators, given fire department SOP/G’s, applicable traffic laws, and emergency vehicle operations reference material, so members are able to be certified based upon department testing requirements.

(A) **Requisite Knowledge.** Procedures for driving and operating fire apparatus based upon department SOP/G’s, health and safety policies used by the AHJ, applicable traffic laws.

(B) **Requisite Skills.** Analyzing information from different sources, interacting with or interviewing personnel associated with training of department members, and delivery methods of instructional materials.

5.7.4* Conduct a periodic safety audit, given fire department operations, apparatus, equipment, facilities, SOP/G’s, and an audit template, so that work practices and procedures are conducted in compliance with applicable federal, state/provincial and local laws, and the safety audit report and recommendations are forwarded to the fire chief for implementation.

(A) **Requisite Knowledge.** Understand work practices and procedures for fire department operations, apparatus, equipment, training, and fire department facilities based upon SOP/G’s, audit template, and federal, state/provincial, and local laws.

(B) **Requisite Skills.** Analyzing information from different sources, interacting with or interviewing personnel associated with training of department members,
documentation of information, utilizing an audit template, and development of reports.

A.5.7.4 A periodic safety audit or survey of fire department operations, apparatus, equipment, facilities, SOP/G’s requires a standard against which to determine compliance with applicable federal, state/provincial and local laws. At a minimum, NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, should be used to determine an acceptable level of compliance. The NFPA 1500 Fire Department Occupational Safety and Health Program Worksheet can be used for the audit template to evaluate the effectiveness of the department’s accident prevention program. This worksheet was developed to provide a template for fire departments that are beginning to implement an occupational safety and health program or that evaluating the current status of their occupational safety and health program.

An internal audit should be conducted at least annually and with an external audit conducted every three years as required by NFPA 1500, Standard on Fire Department Occupational Safety and Health Program Chapter 4 – Fire Department Administration.

5.8 Accident Investigation, Procedures, and Review

5.8.1 Conduct a safety and health investigation, given an incident or planned event involving an occupational injury, illness, exposure, fatality, near miss, or other potentially hazardous condition involving fire department members, fire department vehicles, apparatus, equipment or facilities, SOP/G’s, health and safety policies, so that the facts and the root cause about the incident are correctly identified, deviations from SOP/G’s established by the AHJ and health and safety policies are noted, corrective recommendations are made for preventing similar losses in the future, and all information gathered in the investigation is documented, reported, and recorded according to policies established by the AHJ.

(A) Requisite Knowledge. Procedures for conducting, documenting, recording, and reporting a safety and health investigation, SOP/G’s and health and safety policies used by the AHJ, procedures for preserving evidence and documentation, and the technical knowledge pertinent to the incident under investigation and federal, state/provincial and local laws.

(B) Requisite Skills. Analyzing information from different data sources; interacting with or interviewing personnel associated with the incident, completing safety investigation documentation, identifying cause(s) of injury, death, or property damage, and developing recommendations to prevent similar future losses.
5.8.2 Develop safety and health procedures for treating and transporting an injured or ill member to a medical or health care facility, given applicable resources, policies and procedures, and SOP/G’s, so that the procedure ensures that all life-threatening and non-life-threatening occupational injuries, illnesses, and exposures involving fire department members will receive immediate emergency medical care and, if necessary) transportation to the most appropriate medical or health care facility is arranged.

(A) Requisite Knowledge. SOP/G’s and health and safety policies used by the AHJ; life-threatening and non-life-threatening occupational injuries, and illnesses; and the technical knowledge pertinent to developing and reviewing SOP/G’s and EMS policy and procedures.

(B) Requisite Skills. Analyzing information from different data sources, interacting with or interviewing personnel associated with the incident, completing safety investigation documentation, identifying cause(s) of injury, death, or property damage, and determining recommendations to prevent similar future losses.

5.8.3 Direct safety and health procedures for treating and transporting members with injuries and illnesses, given an incident or planned event, injured members, emergency medical resources, and SOP/G’s, so that all SOP/G’s are followed, members with life-threatening occupational injuries or illnesses are provided immediate emergency medical care and transportation to the most appropriate medical facility, and members with non-life-threatening occupational injuries, illnesses, and exposures are treated on scene or at the most appropriate medical or health care facility.

(A) Requisite Knowledge. SOP/G’s and health and safety policies used by the AHJ; life-threatening and non-life-threatening occupational injuries, and illnesses; and the technical knowledge pertinent to developing and reviewing SOP/G’s and EMS policy and procedures.

(B) Requisite Skills. Analyzing information from different data sources; interacting with or interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining recommendations to prevent similar future losses.

5.8.4 Develop an accident and injury investigation report, given an incident or planned event, applicable documents, techniques, SOP/G’s, and all applicable laws, regulations, and standards, so that the accident and/or injury is
documented, procedures are reviewed and all local, state/provincial, federal requirements are met, documentation is completed and recommendations for revision are made.

(A) Requisite Knowledge. Procedures for developing and reviewing accident and injury reporting and investigation; SOP/G’s and health and safety policies used by the AHJ; all applicable federal, state/provincial, and local laws, regulations, and standards.

(B) Requisite Skills. Analyzing information from different data sources; interacting with or interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining recommendations to prevent similar future losses.

5.8.5 Conduct a post incident analysis of the conditions, activities, and procedures employed during any unusual hazardous operation or at an incident where a member suffers a critical or significant injury, given an incident or planned event, incident information, data, reports or records, SOP/G’s, and necessary technical knowledge and all applicable laws, regulations, and standards; so that risks to personnel are identified and reduced or eliminated at future incidents and the applicable AHJ SOP/G’s are reviewed and revised as needed.

(A) Requisite Knowledge. Technology pertinent to safety and health for the incident type, including but not limited to, confined space entry; heavy equipment operation; rigging/hoisting; building construction; structural collapse; excavation/shoring; use and application of personal protective equipment (PPE); chemical, biological, radiological, and physical (e.g., noise, heat stress, etc.) hazards; potential risks of extended work shifts (work/rest cycles); professionally accepted procedures and tools; fire safety; vehicle work zone safety; SOP/G’s and health and safety policies used by the AHJ; all applicable federal, state/provincial, and local laws, regulations, and standards.

(B) Requisite Skills. Recognize hazards at an emergency scene; communicate hazard information to personnel directly, or through the ICP, determine methods for correcting health and safety hazards, review actions taken to ensure policies were followed and formulate recommendations for the post incident analysis.

5.9 Records Management and Data Analysis.

5.9.1* Manage the collection and analysis of data related to accidents, occupational deaths, injuries, illnesses, and exposures to infectious agents and
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communicable diseases, given incident-related data, a data collection and storage system, the requirements of Chapter 4, Fire Department Administration, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so that the data summarizes fire department experience in different categories, comparisons can be made with other fire departments, national trends, and other occupations and industries, and the information can be accessed for future reference and use.

(A) Requisite Knowledge. Procedures for tabulating and compiling accident and injury data including statistical applications, SOP/G’s and health and safety policies used by the AHJ;

(B) Requisite Skills. Basic statistical analysis in spreadsheets or other appropriate software; identifying cause(s) of trends in injury, death, or property damage; and determining corrections to prevent similar future losses.

5.9.2* Develop, document, and maintain corrective actions to mitigate health and safety hazards or unsafe practices, given identification of these hazards from accident and injury reports or other investigation reports, so that root causes are determined, and controls can be put in place to help prevent future occurrences.

(A) Requisite Knowledge. Procedures for developing and reviewing accident and injury reports and taking corrective actions; SOP/G’s and health and safety policies used by the AHJ; records management policies of the AHJ

(B) Requisite Skills. Writing reports and identifying root cause(s) of injury, death, or property damage; basic records management;

5.9.3 Manage and maintain records regarding the periodic inspection and service testing of fire apparatus and equipment, inspection and service testing of personal safety equipment, and fire department facilities, given NFPA 1500, Standard on Fire Department Occupational Safety and Health Program and inspection and service testing of fire apparatus and equipment, inspection and service testing of personal safety equipment records, so that records are secure, accessible, and are in a format that can be easily analyzed.

(A) Requisite Knowledge. Procedures for management of records.

(B) Requisite Skills. Records management and organization.

5.9.4 Maintain records of control measures implemented to enhance health and safety procedures and accident prevention methods, given evidence of control
measures implemented, so that records of control measures are accessible and are in a format that is appropriate for analysis.

(A) **Requisite Knowledge.** Procedures for record keeping.

(B) **Requisite Skills.** Records management.

5.9.5 Develop and deliver a semiannual report on fire department accidents, occupational injuries, illnesses, deaths, and exposure to the fire chief, given the accident and injury data and necessary equipment, so that the report is delivered to the chief in a readable format and a set of recommendations are created.

(A) **Requisite Knowledge.** Procedures for developing recommendations based upon fire department audits, incident reports, surveys, accident reports, injury reports, inspection reports, and other applicable department information.

(B) **Requisite Skills.** Analyzing information from different sources: interacting with or interviewing personnel associated with the various aspects of the fire department which relate to operations, apparatus, equipment, fire department facilities, and standard operating procedures.

5.10 Apparatus and Equipment

5.10.1 Develop safety-related specifications for fire apparatus and equipment, given new or existing fire apparatus and equipment specifications, information of new fire apparatus and equipment technology, and risks identified in the risk management plan, so that the specifications meet the fire department needs identified in the risk management plan, federal, state/provincial and local laws and NFPA standards are complied with, appropriate revisions are recommended, and the specifications are properly documented.

(A) **Requisite Knowledge.** Chapter 6, Fire Apparatus, Equipment, and Drivers/Operators, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial and local laws that relate to fire apparatus specifications; current fire apparatus specification procedures; resources for conducting fire apparatus specifications; equipment necessary for conducting fire apparatus specifications; procedures, equipment, and safety precautions for conducting fire apparatus specifications.

(B) **Requisite Skills.** Ability to develop fire apparatus specifications; use resources for determining code compliance and complete reporting and documentation requirements.
5.10.2 Develop safety-related specifications for personal protective clothing and equipment, given new or existing personal protective clothing and equipment specifications, information of new fire apparatus and equipment technology, and risks identified in the risk management plan, so that the specifications meet the fire department needs identified in the risk management plan, federal, state/provincial and local laws and NFPA standards are complied with, appropriate revisions are recommended, and the specifications are properly documented.

(A) Requisite Knowledge. Chapter 7, Protective Clothing and Protective Equipment, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial and local laws that relate to fire equipment specifications; current fire equipment specification procedures; current state of technology in the appropriate areas of protective clothing and equipment; procedures, equipment, and safety precautions for use of protective clothing and equipment; the organization’s risk management plan.

(B) Requisite Skills. Ability to develop protective clothing and equipment specifications; use resources for determining code compliance; complete reporting and documentation requirements.

5.10.3 Develop safety-related recommendations for new fire equipment purchases, given applicable provisions of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so that the recommendations for new equipment is accepted and approved in accordance with the AHJ.

(A) Requisite Knowledge. Chapter 6, Fire Apparatus, Equipment, and Drivers/Operators, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial and local laws that relate to fire equipment; current fire equipment evaluation procedures and results.

(B) Requisite Skills. Ability to conduct fire equipment recommendations; use resources for determining code compliance; complete reporting and documentation requirements.

5.10.4 Develop safety-related recommendations for service testing of apparatus and equipment, given service testing results and data, and applicable provisions of NFPA 1500, so that future recommendations for service testing of apparatus and equipment are presented to the designated official.

(A) Requisite Knowledge. Chapter 6, Fire Apparatus, Equipment, and Drivers/Operators, of NFPA 1500, Standard on Fire Department Occupational
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Safety and Health Program; federal, state/provincial and local laws that relate to service testing of apparatus and equipment; current service testing of apparatus and equipment procedures and results.

**B) Requisite Skills.** Ability to conduct service testing of apparatus and equipment recommendations; use resources for determining code compliance; complete reporting and documentation requirements.

5.10.5 Develop, implement and maintain a personal protective clothing and equipment program that provides for the selection, care, maintenance, storage and periodic inspection and evaluation of all protective clothing and equipment; given NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, NFPA 1851: *Standard on Selection, Care, and Maintenance of Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting*, NFPA 1852: *Standard On Selection, Care, And Maintenance Of Open-Circuit Self-Contained Breathing Apparatus (SCBA)*, personal protective clothing and equipment, care, storage, and maintenance resources, SOP/Gs established by the AHJ, and all applicable laws, regulations, and standards, so that protective clothing and equipment is safe for use.

(A) Requisite Knowledge. Chapter 7, Protective Clothing and Protective Equipment, of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*; NFPA 1851: *Standard on Selection, Care, and Maintenance of Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting*, NFPA 1852: *Standard On Selection, Care, And Maintenance Of Open-Circuit Self-Contained Breathing Apparatus (SCBA)*; federal, state/provincial and local laws that relate to protective clothing and equipment programs.

(B) Requisite Skills. Ability to develop protective clothing and equipment program; ability to use resources for determining code compliance; complete reporting and documentation requirements.

5.11 Facility Inspection

5.11.1* Develop a health and safety inspection SOP/G, process, and checklist for a fire department facility given the requirements of chapter 9, Facility Safety, of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, and available resources so that the appropriate inspection procedures are developed, and all applicable code sections and safety and health hazards are noted.
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(A) Requisite Knowledge: Chapter 9, Facility Safety, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, federal, state/provincial and local laws; current facility inspection procedures; resources for conducting a facility inspection; equipment necessary for conducting a facility inspection; procedures, equipment, and safety precautions for conducting facility inspections.

(B) Requisite Skills: Developing SOP/G’s and procedures; acquire resources to initiate and coordinate a facility inspection; use resources for determining code compliance; complete reporting and documentation requirements.

A-5.11.1 This should include food handling and food storage with particular attention paid to food preparation and serving surfaces, cookware, service vessels and utensils, and safe hot water temperatures in kitchens and showers and other sources to prevent scalds. The inspection procedure should also consider blocked hallways, staircases, unlit areas and the like for clothing and other debris which would expose the firefighters and any others present; security for the protection of a responded company leaving an empty firehouse and special attention upon return for objects which don’t belong there.

5.11.2* Conduct a health and safety inspection for a fire department facility given the requirements of chapter 9, Facility Safety, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and a facility that requires an inspection and available resources so that the appropriate inspection procedures are selected and implemented, all applicable code violations and safety and health hazards are noted and correctly documented, the inspection is conducted safely, and all the required reports are correctly completed, and ensure the violations are corrected in a prompt and timely manner.

(A) Requisite Knowledge: Chapter 9, Facility Safety, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, federal, state/provincial and local laws; current facility inspection procedures; resources for conducting a facility inspection; equipment necessary for conducting a facility inspection; procedures, equipment, and safety precautions for conducting facility inspections.

(B) Requisite Skills: Using resources for determining code compliance; complete reporting and documentation requirements.

A-5.11.2 A check-off list or audit template is strongly recommended when conducting these inspections.
5.11.3 Coordinate a health and safety inspection for a fire department facility given the requirements of chapter 9, Facility Safety, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and a facility that requires an inspection and available resources so that the appropriate inspection procedures are selected and implemented, all applicable code violations and safety and health hazards are noted and correctly documented, the inspection is conducted safely, and all the required reports are correctly completed, and ensure the violations are corrected in a prompt and timely manner.

(A) Requisite Knowledge: Chapter 9, Facility Safety, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, federal, state/provincial and local laws; current facility inspection procedures; resources for conducting a facility inspection; equipment necessary for conducting a facility inspection; procedures, equipment, and safety precautions for conducting facility inspections.

(B) Requisite Skills: Using coordination skills to acquire resources to initiate and coordinate a facility inspection; use resources for determining code compliance; complete reporting and documentation requirements.

5.12 Health Maintenance

5.12.1 Analyze the fire department health maintenance program, given a fire department health maintenance program and the medical and physical requirements of Chapter 10, Medical and Physical Requirements, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so that the program meets and includes medical, physical performance, and health and fitness requirements, as well as a health database, infectious control procedures, a Fire Department physician, and fitness for duty evaluations, and recommendations are made to correct any noted deficiencies.

(A) Requisite Knowledge: Chapter 10, Medical and Physical Requirements, 11, Member Assistance and Wellness Programs, and 12, Critical Incident Stress Programs, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; AHJ codes, standards, and regulations that relate to the fire department health maintenance program; current the fire department health maintenance program; medical surveillance, wellness programs, physical fitness, nutrition, and injury and illness rehabilitation programs; resources for conducting a the fire department health maintenance program; equipment necessary for the fire department health maintenance program; procedures, equipment, and safety precautions for a the fire department health maintenance program and critical incident stress programs.
(B) Requisite Skills: Analyze and incorporate information from health maintenance programs; interact with or interview personnel associated with a health and wellness.

5.12.2 Coordinate the fire department health maintenance program, given a fire department health maintenance program and the medical and physical requirements of Chapter 10, Medical and Physical Requirements, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so that the program meets and includes medical, physical performance, and health and fitness requirements, as well as a health database, infectious control procedures, a FD physician, and fitness for duty evaluations.

(A) Requisite Knowledge: Chapter 10, Medical and Physical Requirements, 11, Member Assistance and Wellness Programs, and 12, Critical Incident Stress Programs, of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; AHJ codes, standards, and regulations that relate to the fire department health maintenance program; current the fire department health maintenance program; medical surveillance, wellness programs, physical fitness, nutrition, and injury and illness rehabilitation programs; resources for conducting the fire department health maintenance program; equipment necessary for the fire department health maintenance program; procedures, equipment, and safety precautions for the fire department health maintenance program and critical incident stress programs.

(B) Requisite Skills: Coordinate information from health maintenance programs; interact with or interview personnel associated with a health and wellness.

5.13 Liaison

5.13.1 Report and submit recommendations from the fire department occupational health and safety committee to fire department administration, given SOP/G’s and health and safety policies used by the AHJ, a fire department occupational health and safety committee, and committee recommendations so that all recommendations are documented and forwarded to fire department administration.

(A) Requisite Knowledge. SOP/G’s and health and safety policies used by the AHJ; NFPA 1500; AHJ codes, standards, and regulations that relate to the fire department occupational safety and health committee.

(B) Requisite Skills. Acquire recommendations from the health and safety committee; evaluate the recommendations and communicate in a manner such that recommendations are communicated and objectives are met.
5.13.2* Provide information and assistance for adverse effects on fire department non-emergency operations given a scenario, the fire department’s risk management plan, SOP/G’s so that members can perform their job tasks in a safe and effective manner.

(A) **Requisite Knowledge.** Procedures for conducting job tasks based upon department SOP/G’s, the department’s risk management plan, health and safety policies used by the AHJ, and the technical knowledge pertinent to perform various job tasks.

(B) **Requisite Skills.** Ability to evaluate and prioritize hazards, critical thinking to analyze the hazard, select the most appropriate control measure and evaluate its effectiveness in enhancing fire fighter safety.

5.13.3 Develop recommendations for changes in equipment, procedures and methods based on results of evaluations, given recommendations from the fire department occupational safety and health committee, safety audits, an analysis of injury statistics or other reliable sources of hazardous conditions or injury data, so that the recommendations for equipment, procedures and methods are accepted and approved in accordance with the AHJ.

(A) **Requisite Knowledge.** Hazard recognition, assessment, controls and evaluation, health and safety recommendations, use of safety audits, department injury statistics.

(B) **Requisite Skills.** Analyze and interpret injury statistics, safety plan development, interpersonal skills, and report writing.

5.13.4 Assist with the fire department physician for administering needed medical advice and treatment to the members of the fire department, given a fire department physician, fire department members, understanding of occupational medicine for the fire service and the IAFF/IAFC Wellness Initiative, so that the member receives the necessary information needed to maximize their health and safety.

(A) **Requisite Knowledge:** medical requirements for members as per NFPA 1582, IAFC/IAFF Joint Voluntary, Non-Punitive Wellness program, health hazards associated with fire fighting, chemistry of fire, limitations of PPE and current occupational safety and health practices.

(B) **Requisite Skills:** Occupational medicine, diagnostic skills, current preventative medical practices and interpersonal skills.
5.14 Occupational Safety and Health Committee

5.14.1 Establish a health and safety committee, given the risk management plan, the organization’s health and safety policy, and a record-keeping system for data analysis, and fire department members, so that the committee is composed of members identified from NFPA 1500, Standard on Fire Department Occupational Safety and Health Program section 4.5.1.1.

(A) Requisite Knowledge: Duties of the safety committee, with a clear understanding of their roles and responsibilities, SOP/G’s, and the organization’s health and safety policy.

(B) Requisite Skills: Interpersonal and organizational skills to establish a safety committee with representation from all levels of the organization.

5.14.2 Serve as the designated health and safety officer on the occupational safety and health committee given the appointment by the Fire Chief or AHJ so that the committee is resource for the Health and Safety Officer and other safety professionals in the organization, and provides a forum for the involved employees to share concerns about the organization’s safety and health programs.

(A) Requisite Knowledge: Duties of the safety committee, with a clear understanding of their roles and responsibilities, SOP/G’s, the organization’s health and safety policy and NFPA 1500, Standard on Fire Department Occupational Safety and Health Program section 4.5.

(B) Requisite Skills: Develop a safety committee policy, conduct research, develop recommendations, and study and review materials pertaining to occupational safety and health within the fire department.

5.15 Infection Control

5.15.1 Assess the fire department’s infection control program, given a copy of the department’s program, incident reports, and access related equipment, so that the requirements of 29 CFR 1910.1030, “Occupational Exposure to Bloodborne Pathogens,” NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and NFPA 1581, Standard on fire Department Infection Control Program are met.
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5.15.2 Function as the fire department infection control officer, if an infection control officer position does not exist in the fire department, given an infection control scenario, so that the objectives of the infection control program as specified in the requirements of 29 CFR 1910.1030, “Occupational Exposure to Bloodborne Pathogens”; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; and NFPA 1581, Standard on Fire Department Infection Control Program are met.


(B) Requisite Skill: Acquire and document infection control procedures; coordination skills necessary to revise program. Ability to assess the requirements based on 29 CFR 1910.1030, “Occupational Exposure to Bloodborne Pathogens;” NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and NFPA 1581, Standard on Fire Department Infection Control Program; ability to educate and integrate the occupational health and safety aspects of the risk management program into infection control training and education programs.

Health and Safety Officer Definition

NFPA 1521, Standard on Fire Department Safety Officer

- Definition of Health and Safety Officer: The member of the fire department assigned and authorized by the fire chief as the manager of the safety and health program.
Annex Note: Health and Safety Officer (HSO). In some fire departments, the Health and Safety Officer position may be staffed by a non-uniform member who is appointed by the fire chief and meets the qualifications of this position as determined by this standard. Examples of non-uniform members can include a certified safety professional (CSP), an industrial hygienist, or an occupational safety and health specialist. It is important that a non-uniform member have the requisite knowledge and requisite skills to function effectively in this position. If qualified, this individual can also be the incident safety officer or that role can be assigned to another individual as a separate function (see Chapter 6).
New Material to be placed before existing 6.3.1

6.3.1 (New) For qualification at the Incident Safety Officer level, the candidate shall meet the requirements of Fire Officer Level 1 specified in NFPA 1021, Standard for Fire Officer Professional Qualifications, the general knowledge requirements in 6.3.1.1, the general skill requirements in 6.3.1.2, and the job performance requirements (JPRs) defined in Sections 6.4 through 6.9.

6.3.1.1 (New) General Knowledge Requirements. Knowledge of the National Incident Management System (NIMS) and the Incident Command System (ICS), process of managing scene safety including recognition of the types of risk that can occur at an incident or planned event commensurate with this level of qualification, safety and health hazards involved in emergency operations, and personnel accountability practices.

6.3.1.2 (New) General Skill Requirements. Prioritizing tasks so as to accomplish the most critical first, making decisions in an environment with a large number of unknowns, evaluating material resource needs, recognizing the need for supplemental technical knowledge, and anticipating hazards and taking action in a proactive manner to ensure responder safety and health. [1026.5.1.1.2]

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

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Committee Statement

Committee Action: Rejected but see related SR
Resolution: SR-58-NFPA 1521-2013
Statement: The committee has reorganized the document by rewriting the existing chapter 6 and renumbering it as chapter 5. Related Annex material has been renumbered to reflect this change.
I, David Bernzweig, hereby irrevocably grant and assign to the National Fire Protection Association (NFPA) all and full rights in copyright in this Public Comment (including both the Proposed Change and the Statement of Problem and Substantiation). I understand and intend that I acquire no rights, including rights as a joint author, in any publication of the NFPA in which this Public Comment in this or another similar or derivative form is used. I hereby warrant that I am the author of this Public Comment and that I have full power and authority to enter into this copyright assignment.

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\textbf{(A) Requisite Knowledge—}

NFPA 1026, \textit{Standard for Incident Management Personnel Professional Qualifications}, Chapter 5—

\textbf{(B) Requisite Skills—}

Ability to identify, analyze, and apply applicable NFPA 1026, \textit{Standard for Incident Management Personnel Professional Qualifications}, functions during fire suppression activities.

Establish or assume the role of Incident Safety Officer within an ICS at an incident or planned event, given an incident or planned event, an ICS structure, a command post, a briefing from an Incident Commander (IC) or outgoing Incident Safety Officer, standard operating procedures related to health and safety, an Incident Action Plan (IAP), applicable personal protective equipment, and communications and information recording equipment, so that the assignment is received and understood; situational information about the incident or planned event is received; incident priorities, goals, and objectives are transferred; and applicable communication means are employed. \textsuperscript{1026:5.2.1}

\textbf{(A) Requisite Knowledge.} Understand accepted safety and health principles, including issues such as the hierarchy of controls, specific technical or regulatory areas pertinent to the response, and the accepted management principles needed to promote safety in the response environment. \textsuperscript{1026:5.2.1(A)}

\textbf{(B) Requisite Skills.} Prioritizing tasks, making decisions in an environment with a large number of unknowns, evaluating resource needs, recognizing the need for supplemental technical knowledge, and taking action in a proactive manner to ensure responder safety and health. \textsuperscript{1026:5.2.1(B)}

---

**Statement of Problem and Substantiation for Public Comment**

ISO JPR TG Proposal

**Submitter Information Verification**

Submitter Full Name: David Bernzweig
Organization: Columbus (OH) Division of Fire
Street Address:
City:
State:
Zip:
Submittal Date: Thu Nov 15 21:17:07 EST 2012
Committee Statement

Committee Action: Rejected but see related SR
Resolution: SR-58-NFPA 1521-2013
Statement: The committee has reorganized the document by rewriting the existing chapter 6 and renumbering it as chapter 5. Related Annex material has been renumbered to reflect this change.

Copyright Assignment

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New Section After 6.4.1

6.4.2 Manage the transfer of Incident Safety Officer duties at an incident or planned event, given an incident or planned event, an established command structure and Incident Safety Officer, an IAP, an incident safety plan, a current situation status, incident resources, a command post, incident documentation, and communications equipment, so that incident information is exchanged, reports and plans for the subsequent operational period are completed, continuity of authority and situational awareness are maintained, changes in incident or planned event complexity are accounted for, the new Incident Safety Officer is fully briefed on the incident or planned event, and the new Incident Safety Officer is identified. [1026:5.2.2]

(A) Requisite Knowledge. Procedures for transfer of duty; information sources; resource accountability and tracking process; use of ICS forms; the role and duties of an Incident Safety Officer within an ICS; organizational policies and procedures for safety; accountability protocols; resource types and deployment methods; documentation methods and requirements; availability, capabilities, and limitations of responders and other resources; communication problems and needs; communications requirements; operational periods for Incident Safety Officer functions; and types of tasks and assignment responsibilities. [1026:5.2.2(A)]

(B) Requisite Skills. Conducting a transfer briefing meeting; acquiring and documenting information and orders from the IC; using reference materials; evaluating incident information; managing communications; completing required ICS and health and safety forms; recognizing the need to expand and/or transfer the safety function in the ICS structure; reviewing, understanding, and conducting a transfer of duty briefing, including the completion of the transfer documents; and communicating in a manner such that information is transferred and objectives are met. [1026:5.2.2(B)]

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

Submitter Full Name: David Bernzweig
Organization: Columbus (OH) Division of Fire
Street Address:
City:
State:
Zip:
Submittal Date: Thu Nov 15 21:20:55 EST 2012

Committee Statement
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<td>Resolution:</td>
<td>SR-58-NFPA 1521-2013</td>
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<tr>
<td>Statement:</td>
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Public Comment No. 8-NFPA 1521-2012 [Section No. 6.5.2]

Evaluate incident environmental and operational factors and determine the need to assign rapid intervention teams and increase RIC capability, given an incident or planned event that includes one or more IDLH elements, an IAP, responders engaged in tactical operations, and a pre-assigned rapid intervention team, so that judgment is offered to the IC for the establishment of RIC in accordance with NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and NFPA 1561, Standard on Emergency Services Incident Management System; RIC capabilities are increased congruent to the environment and operational exposure present; and the AHJ’s incident standard operating guidelines and SOP/Gs are followed.

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

Submitter Full Name: David Bernzweig  
Organization: Columbus (OH) Division of Fire
Street Address:  
City:  
State:  
Zip:  
Submittal Date: Thu Nov 15 21:28:51 EST 2012

Committee Statement

Committee Action: Rejected but see related SR  
Resolution: SR-58-NFPA 1521-2013  
Statement: The committee has reorganized the document by rewriting the existing chapter 6 and renumbering it as chapter 5. Related Annex material has been renumbered to reflect this change.
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Public Comment No. 9-NFPA 1521-2012 [ Section No. 6.5.2(A) ]

(A) Requisite Knowledge.


Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

Submitter Full Name: David Bernzweig
Organization: Columbus (OH) Division of Fire
Street Address:
City: 
State: 
Zip: 
Submittal Date: Thu Nov 15 21:31:12 EST 2012

Committee Statement

Committee Action: Rejected but see related SR
Resolution: SR-58-NFPA 1521-2013
Statement: The committee has reorganized the document by rewriting the existing chapter 6 and renumbering it as chapter 5. Related Annex material has been renumbered to reflect this change.
Copyright Assignment

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Public Comment No. 10-NFPA 1521-2012 [Section No. 6.5.4 [Excluding any Sub-Sections]]

Determine flashover and hostile fire event potential at building fires, given visible exterior smoke and fire conditions, so that potential outcomes can be communicated to the incident commander and tactical-level management units and adjustments made to the IAP to improve safety.

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

Submitter Full Name: David Bernzweig
Organization: Columbus (OH) Division of Fire
Street Address:
City:
State:
Zip:
Submittal Date: Thu Nov 15 21:37:03 EST 2012

Committee Statement

Committee Action: Rejected but see related SR
Resolution: SR-58-NFPA 1521-2013
Statement: The committee has reorganized the document by rewriting the existing chapter 6 and renumbering it as chapter 5. Related Annex material has been renumbered to reflect this change.

Copyright Assignment

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Public Comment No. 11-NFPA 1521-2012 [Section No. 6.5.4.1 (Excluding any Sub-Sections)]

Determine wildland fire growth and blow-up potential given a wildland and/or cultivated vegetation fires, so that information can be communicated to the incident commander, fire, weather conditions, and geographical information, so that fire growth and blow-up potential is identified and conditions communicated to the Incident Commander, and tactical-level management components and adjustments made to the IAP to improve member safety.

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

Submitter Full Name: David Bernzweig
Organization: Columbus (OH) Division of Fire
Street Address: City:
State:
Zip:
Submital Date: Thu Nov 15 21:41:34 EST 2012

Committee Statement

Committee Action: Rejected
Resolution: The committee has developed new text to be added after 6.7 as a second revision.

Copyright Assignment

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6.6.1 In addition to the requirements of this section, the Fire Department Safety Officer shall perform the requirements as prescribed in NFPA 1521, Standard for Fire Department Safety Officer, Section 6.14.

(A) Requisite Knowledge.
NFPA 1521, Standard for Fire Department Safety Officer, Section 6.14, requirements.

(B) Requisite Skills.
Ability to identify, analyze, and apply applicable NFPA 1521, Standard For Fire Department Safety Officer, Section 6.14, general performance functions.

Statement of Problem and Substantiation for Public Comment

correct reference

Submitter Information Verification

Submitter Full Name: David Bernzweig
Organization: Columbus (OH) Division of Fire
Street Address:
City:
State:
Zip:
Submittal Date: Thu Nov 15 21:47:26 EST 2012

Committee Statement

Committee Action: Rejected but see related SR
Resolution: SR-58-NFPA 1521-2013
Statement: The committee has reorganized the document by rewriting the existing chapter 6 and renumbering it as chapter 5. Related Annex material has been renumbered to reflect this change.
Copyright Assignment

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Classify technical rescue operations and determine the need for a technician-trained ISO or Assistant Safety Officer, given a hazardous materials incident or drill technical rescue incident, exercise, or scenario, so that the IC can allocate resources that fulfill the SO role in accordance with CFR 1910.146; NFPA 1006, Standard for Rescue Technician Professional Qualifications; and AHJSOP AHJSOP/Gs for technical rescue operations.

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

Submitter Full Name: David Bernzweig
Organization: Columbus (OH) Division of Fire

Committee Statement

Committee Action: Rejected but see related SR
Resolution: SR-58-NFPA 1521-2013
Statement: The committee has reorganized the document by rewriting the existing chapter 6 and renumbering it as chapter 5. Related Annex material has been renumbered to reflect this change.

Copyright Assignment

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Public Comment No. 14-NFPA 1521-2012 [Section No. 6.7.5]
[Excluding any Sub-Sections]

Develop a hazardous materials incident control zone schematic, inclusive of no-entry zones, hot zones, hazard reduction zone, support zones, and travel pathways, given a hazardous materials incident or scenario and SOP/Gs, so that responders can arrange cones and marking tape in accordance with the developed schematic which must be inclusive of no-entry zones, hot zones, hazard reduction zone, support zones, and travel pathways.

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

Submitter Full Name: David Bernzweig
Organization: Columbus (OH) Division of Fire
Street Address:
City:
State:
Zip:
Submittal Date: Thu Nov 15 21:54:55 EST 2012

Committee Statement

Committee Action: Rejected but see related SR
Resolution: SR-58-NFPA 1521-2013
Statement: The committee has reorganized the document by rewriting the existing chapter 6 and renumbering it as chapter 5. Related Annex material has been renumbered to reflect this change.

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6.8.1
In addition to the requirements of this section, the Fire Department Safety Officer shall perform the requirements as prescribed in NFPA, *Standard For Fire Department Safety Officer*, Section 6.14.

(A) Requisite Knowledge.

(B) Requisite Skills.

Statement of Problem and Substantiation for Public Comment

corrected reference

Submitter Information Verification

Submitter Full Name: David Bernzweig
Organization: Columbus (OH) Division of Fire
Street Address: City:
State:
Zip: Submittal Date: Thu Nov 15 22:00:38 EST 2012

Committee Statement

Committee Action: Rejected
Resolution: This text is not applicable here.

Copyright Assignment

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Public Comment No. 15-NFPA 1521-2012 [Section No. 6.8.3]
[Excluding any Sub-Sections] 

Recognize severe injuries, accidents, mishaps, and other potentially harmful events, given an incident or planned event, department SOP/Gs, so that a determination can be made to disqualify remove the SO from the investigative responsibility if a potential conflict exists.

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

Submitter Full Name: David Bernzweig
Organization: Columbus (OH) Division of Fire
Street Address:
City:
State:
Zip:
Submittal Date: Thu Nov 15 21:57:14 EST 2012

Committee Statement

Committee Action: Rejected but see related SR
Resolution: SR-58-NFPA 1521-2013
Statement: The committee has reorganized the document by rewriting the existing chapter 6 and renumbering it as chapter 5. Related Annex material has been renumbered to reflect this change.

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6.9.1
In addition to the requirements of this section, the Fire Department Safety Officer shall perform the requirements as prescribed in NFPA 1521, *Standard for Fire Department Safety Officer*, Section 6.14.

(A) Requisite Knowledge.

(B) Requisite Skills.

Statement of Problem and Substantiation for Public Comment
ISO JPR TG Proposal

Submitter Information Verification
Submitter Full Name: David Bernzweig
Organization: Columbus (OH) Division of Fire
Street Address:  
City:  
State:  
Zip:  
Submittal Date: Thu Nov 15 21:58:17 EST 2012

Committee Statement
Committee Action: Rejected
Resolution: This text is not applicable here.

Copyright Assignment
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Public Comment No. 17-NFPA 1521-2012 [Section No. 6.9.2]

[Excluding any Sub-Sections]

Prepare a written post-incident analysis from the SO perspective, given a witnessed incident, exercise, or planned event, so that safety and health issues, best safety practices, deviations from SOP/Gs established by the AHJ, and recommendations for future events are documented.

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

Submitter Full Name: David Bernzweig
Organization: Columbus (OH) Division of Fire
Street Address:
City:
State:
Zip:
Submittal Date: Thu Nov 15 21:59:28 EST 2012

Committee Statement

Committee Action: Rejected but see related SR
Resolution: SR-58-NFPA 1521-2013
Statement: The committee has reorganized the document by rewriting the existing chapter 6 and renumbering it as chapter 5. Related Annex material has been renumbered to reflect this change.

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A.6.5.2(C)
Where the rapid intervention team requirement has been met, the SO should meet with the rapid intervention team leader and share information and observations such as fire conditions, building construction, access and egress, hazardous energy, and other pertinent hazards.

The intention of this requirement is that the SO check to see that the incident commander has established a rapid intervention company. In cases where this has not happened, the incident safety officer should inform the incident commander of the need.

The need for rapid intervention company should be determined by evaluating the relationship of environmental factors (hazards and characteristics of the location) with operational factors (tasks being performed). A RIC should be established in cases where members are deemed to be working in IDLH environments.

Statement of Problem and Substantiation for Public Comment

ISO JPR TG Proposal

Submitter Information Verification

<table>
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<tr>
<th>Submitter Full Name:</th>
<th>David Bernzweig</th>
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<td>Columbus (OH) Division of Fire</td>
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<td>Thu Nov 15 22:15:17 EST 2012</td>
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Committee Statement

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MEMORANDUM

To:                NFPA Technical Committee on Fire Service Occupational Safety and Health
From:             Yvonne Smith, Project Administrator
Date:           August 29, 2013
Subject:   NFPA 1521 Second Draft TC FINAL Ballot Results (A2014)

According to the final ballot results, all ballot items received the necessary affirmative votes to pass ballot.

32    Members Eligible to Vote
11    Not Returned (Blake, Bogucki, Finkelman, Farrett, Laton, Prezant, Rueda, Schwartz, Stewart, Wann, Zagaris)
21    Affirmative on All
0    Negatives on one or more second revisions:
0    Abstentions on one or more second revisions:

The attached report shows the number of affirmative, negative, and abstaining votes as well as the explanation of the vote for each first/second revision.

There are two criteria necessary for each first/second revision to pass ballot: (1) simple majority and (2) affirmative 3/4 vote. The mock examples below show how the calculations are determined.

(1) Example for Simple Majority: Assuming there are 20 vote eligible committee members, 11 affirmative votes are required to pass ballot. (Sample calculation: 20 members eligible to vote ÷ 2 = 10 + 1 = 11)

(2) Example for Affirmative 3/4: Assuming there are 20 vote eligible committee members and 1 member did not return their ballot and 2 members abstained, the number of affirmative votes required would be 15. (Sample calculation: 20 members eligible to vote − 1 not returned − 2 abstentions = 19 x 0.75 = 14.25 = 15)

As always please feel free to contact me if you have any questions.
Second Revision No. 9-NFPA 1521-2013 [ Global Comment ]

Change document title to read as noted below:
Standard for Fire Department Safety Officer Professional Qualifications.

Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address: [ Not Specified ]
City: [ Not Specified ]
State: [ Not Specified ]
Zip: [ Not Specified ]
Submittal Date: Wed Jan 09 14:58:26 EST 2013

Committee Statement

Committee Statement: This change has been made as a result of a CC note addressing the title of the document.
Response Message: 

Ballot Results

✔ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
0 Abstention

Not Returned
Blake, Paul
Bogucki, Sandy
Finkelman, Michael L.
Garrett, Christopher A.
Laton, Michael A.
Prezant, David J.
Rueda, Mario D.
Schwartz, Andrew G.
Stewart, Donald F.
Wann, Teresa

http://submittals.nfpa.org/TerraViewWeb/ContentFetcher?commentParams=\%28\%28Com...
Zagaris, Kim D.

Affirmative All
Bennett, Lawrence T.
Bernzweig, David T.
Brinkley, James E.
Childress, Dennis R.
Cuff, Jr., Thomas J.
Harms, Todd A.
Hillenbrand, Thomas
Kerwood, Scott D.
Krause, Randy J.
Lackore, J. Roger
Lopes, Tamara DiAnda
McLeod, III, Robert L.
Metheny, Jarett
Neamy, Robert D.
Pietzsch, Ryan
Raynis, Stephen
Samo, Daniel G.
Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terryn, Fred C.
The verb "ensure" appears in many instances throughout the document. First occurrence is 5.3.4. This term carries responsibility to execute an action that could extend to situations where the ability to ensure is beyond the practitioner's control, yet the practitioner could still be held responsible under the standard. A more appropriate verb would be "verify", which still requires implementation of the program, but limits the practitioner's responsibility to within the practitioner's field of influence.

Alternately, "ensure" could be defined explicitly in the standard to limit the liability of the practitioner.

Robert Deom
Volunteer Firefighter #35
Kahnawake Fire Brigade
PO Box 520
Kahnawake, Mohawk Territory
J0L 1B0
Canada
514-234-1133
mojojo85@gmail.com

Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address: [ Not Specified ]
City: [ Not Specified ]
State: [ Not Specified ]
Zip: [ Not Specified ]
Submittal Date: Wed Jan 09 19:48:53 EST 2013

Committee Statement

Committee Statement: The committee understands the submitters intent of the public comment and, where the committee felt appropriate, they made the suggested changes already in the text. However, there are instances where the committee has chosen to leave the word "ensure" due to the manner in which the JPR has been written and what the candidate will be tested on.

Response Message: Public Comment No. 3-NFPA 1521-2012 [Global Input]

Ballot Results

✓ This item has passed ballot
32 Eligible Voters
11 Not Returned
21 Affirmative All
  0 Affirmative with Comments
  0 Negative with Comments
  0 Abstention

Not Returned
Blake, Paul
Bogucki, Sandy
Finkelman, Michael L.
Garrett, Christopher A.
Laton, Michael A.
Prezant, David J.
Rueda, Mario D.
Schwartz, Andrew G.
Stewart, Donald F.
Wann, Teresa
Zagaris, Kim D.

Affirmative All
Bennett, Lawrence T.
Bernzweig, David T.
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Metheny, Jarett
Neamy, Robert D.
Pietzsch, Ryan
Raynis, Stephen
Samo, Daniel G.
Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terryn, Fred C.
Chapter 1 Administration

1.1 Scope.
This standard identifies minimum job performance requirements (JPRs) for the qualifications, assignment, duties, and responsibilities of a health and safety officer (HSO) and an incident safety officer (ISO) for a fire department. This standard identifies the minimum job performance requirements (JPRs) for health and safety officer (HSO) and incident safety officer (ISO) for a fire department.

1.2* Purpose.
The purpose of this standard is to specify the minimum JPRs for service as a fire department HSO and ISO.

1.2.1 This standard shall define HSO and ISO for a fire department. The purpose of this standard is to specify the minimum JPRs for a fire department health and safety officer and an incident safety officer.

1.2.2 Compliance with this standard is intended to further define the qualifications, authorities, and functions of the health and safety officer and the incident safety officer as referenced in NFPA 1500, Standard on Fire Department Occupational Safety and Health Program. The intent of this standard shall be to ensure that personnel serving as HSOs and ISOs for a fire department are qualified.

1.2.3* Nothing herein is intended to restrict any jurisdiction from exceeding the minimum requirements of this standard. This standard shall not address organization or management responsibility.

1.2.4 It is not the intent of this standard to restrict any jurisdiction from exceeding or combining these minimum requirements.

1.2.5 JPRs for each level or position are the tasks personnel shall be able to perform to carry out the job duties. (See Annex D.)

1.2.6* The HSO and ISO shall remain current with the general knowledge, skills, and JPRs for each qualification level.

1.2.7 The JPRs shall be accomplished in accordance with the requirements of the authority having jurisdiction (AHJ), NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and NFPA 1561, Standard on Emergency Services Incident Management System and Command Safety.

1.3 Application.
The application of this standard is to specify which requirements within the document shall apply to an HSO and ISO for a fire department.

1.3.1
The requirements of this standard apply to organizations providing rescue, fire suppression, emergency medical services, hazardous materials mitigation, special operations, and other emergency services, including public, military, private, and industrial fire departments.

The requirements of this standard shall apply to members serving in organizations providing rescue, fire suppression, emergency medical services, hazardous materials mitigation, special operations, and other emergency services, including public, military, private, and industrial fire departments.

1.3.2
This standard does not apply to industrial fire brigades, which might also be known as emergency brigades, emergency response teams, fire teams, plant emergency organizations, or mine emergency response teams.

This standard shall not apply to members serving in industrial fire brigades, which might also be known as emergency brigades, emergency response teams, fire teams, plant emergency organizations, or mine emergency response teams.

1.3.3
The JPRs shall be accomplished in accordance with the requirements of the AHJ and all applicable NFPA standards.

1.3.4
It shall not be required that the JPRs be mastered in the order in which they appear. The AHJ shall establish instructional priority and the training program content to prepare personnel to meet the JPRs of this standard. (See Annex D.)

1.3.5*
Performance of each requirement of this standard shall be evaluated by personnel approved by the AHJ.

1.3.6
The JPRs for each level shall be completed in accordance with recognized practices and procedures or as defined by law or by the AHJ.

1.3.7
Personnel assigned the duties in Chapter 4 shall meet all the requirements defined in Chapter 4 prior to being qualified. Personnel assigned the duties in Chapter 5 shall meet all the requirements defined in Chapter 5 prior to being qualified.

1.3.8
The AHJ shall provide personal protective clothing and the equipment necessary to conduct assignments.

1.3.9
JPRs involving exposure to products of combustion shall be performed in approved PPE.

1.3.10
Prior to training to meet the requirements of the standard, personnel shall meet the following requirements:

(1) Educational requirements established by the AHJ
(2) Age requirements established by the AHJ
(3) *Medical requirements as developed and validated by the AHJ and in compliance with applicable legal requirements
(4) Job-related physical performance requirements as developed and validated by the AHJ

1.3.11 Wherever in this standard the terms rules, regulations, policies, procedures, supplies, apparatus, or equipment are referred to, it is implied that they are those of the AHJ.

1.4 General Units.
In this standard, values for measurement are followed by an equivalent in SI units, but only the first stated value shall be regarded as the requirement. Equivalent values in SI units shall not be considered as the requirement, as these values can be approximate. (See Table 1.4.)

Table 1.4 U.S.-to-SI Conversions

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<td>1 in. = 25.4 mm</td>
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<td></td>
<td>foot (ft)</td>
<td>meter (m)</td>
<td>1 ft = 0.305 m</td>
</tr>
<tr>
<td>Area</td>
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<td>square meter (m²)</td>
<td>1 ft² = 0.0929 m²</td>
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1.4.1 The fire department safety officer shall maintain professional competency through professional development, continuing education, and membership in professional organizations as directed by the AHJ.

Supplemental Information

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<td>Chap 1 with editorial changes</td>
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<tr>
<td>Chapter_1_Administration_AnnexA-editorial.docx</td>
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Submitter Information Verification

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<th>[ Not Specified ]</th>
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<td>Submittal Date:</td>
<td>Mon May 20 10:50:43 EDT 2013</td>
</tr>
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Committee Statement
Committee Statement: This text is replacing the existing chapter one as it is boilerplate for professional qualifications documents and the committee has also made some modifications to the text with the help of the correlating committee. See the attached document and also the attached annex material added by the committee to provide the end user with further information and clarification.

Response Message:

Ballot Results

✓ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
0 Abstention

Not Returned
Blake, Paul
Bogucki, Sandy
Finkelman, Michael L.
Garrett, Christopher A.
Laton, Michael A.
Prezant, David J.
Rueda, Mario D.
Schwartz, Andrew G.
Stewart, Donald F.
Wann, Teresa
Zagaris, Kim D.

Affirmative All
Bennett, Lawrence T.
Bernzweig, David T.
Brinkley, James E.
Childress, Dennis R.
Cuff, Jr., Thomas J.
Harms, Todd A.
Hillenbrand, Thomas
Kerwood, Scott D.
Krause, Randy J.
Lackore, J. Roger
Lopes, Tamara DiAnda
McLeod, III, Robert L.
Metheny, Jarett
Neamy, Robert D.
Pietzsch, Ryan
Raynis, Stephen
Samo, Daniel G.
Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terryn, Fred C.
Chapter 1 Administration

1.1 Scope. This standard identifies the minimum job performance requirements (JPRs) for health and safety officer (HSO) and incident safety officer (ISO) for a fire department.

1.2* Purpose. The purpose of this standard is to specify the minimum JPRs for service as a fire department HSO and ISO.

1.2.1 This standard shall define HSO and ISO for a fire department.

1.2.2 The intent of this standard shall be to ensure that personnel serving as HSOs and ISOs for a fire department are qualified.

1.2.3* This standard shall not address organization or management responsibility.

1.2.4 It is not the intent of this standard to restrict any jurisdiction from exceeding or combining these minimum requirements.

1.2.5 JPRs for each level or position are the tasks personnel shall be able to perform to carry out the job duties. (See Annex D.)

1.2.6* The HSO and ISO shall remain current with the general knowledge, skills, and JPRs for each qualification level.

1.2.7 The JPRs shall be accomplished in accordance with the requirements of the authority having jurisdiction (AHJ), NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and NFPA 1561, Standard on Emergency Services Incident Management System and Command Safety.

1.3 Application. The application of this standard is to specify which requirements within the document shall apply to an HSO and ISO for a fire department.

1.3.1 The requirements of this standard shall apply to members serving in organizations providing rescue, fire suppression, emergency medical services, hazardous materials mitigation, special operations, and other emergency services, including public, military, private, and industrial fire departments.

1.3.2 This standard shall not apply to members serving in industrial fire brigades, which might also be known as emergency brigades, emergency response teams, fire teams, plant emergency organizations, or mine emergency response teams.

1.3.3 The JPRs shall be accomplished in accordance with the requirements of the AHJ and all applicable NFPA standards.

1.3.4 It shall not be required that the JPRs be mastered in the order in which they appear. The AHJ shall establish instructional priority and the training program content to prepare personnel to meet the JPRs of this standard. (See Annex D.)

1.3.5* Performance of each requirement of this standard shall be evaluated by personnel approved by the AHJ.
1.3.6 The JPRs for each level shall be completed in accordance with recognized practices and procedures or as defined by law or by the AHJ.

1.3.7 Personnel assigned the duties in Chapter 4 shall meet all the requirements defined in Chapter 4 prior to being qualified. Personnel assigned the duties in Chapter 5 shall meet all the requirements defined in Chapter 5 prior to being qualified.

1.3.8 The AHJ shall provide personal protective clothing and the equipment necessary to conduct assignments.

1.3.9 JPRs involving exposure to products of combustion shall be performed in approved PPE.

1.3.10 Prior to training to meet the requirements of the standard, personnel shall meet the following requirements:

1) Educational requirements established by the AHJ
2) Age requirements established by the AHJ
3) *Medical requirements as developed and validated by the AHJ and in compliance with applicable legal requirements
4) Job-related physical performance requirements as developed and validated by the AHJ

1.3.11 Wherever in this standard the terms rules, regulations, policies, procedures, supplies, apparatus, or equipment are referred to, it is implied that they are those of the AHJ.

1.4 Units. In this standard, values for measurement are followed by an equivalent in SI units, but only the first stated value shall be regarded as the requirement. Equivalent values in SI units shall not be considered as the requirement, as these values can be approximate. (See Table 1.4.)

<table>
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<tbody>
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<tr>
<td>----------</td>
</tr>
<tr>
<td>Length</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Area</td>
</tr>
</tbody>
</table>
A.1.2

The committee believes that this document specifies the minimum JPRs for HSO and ISO for a fire department. The committee recognizes that emergency services organizations might have to invest considerable resources to provide the equipment and training needed to perform safely and efficiently. The committee does not mean to imply that organizations with limited resources cannot provide response services, only that the individuals charged with responsibilities are qualified to specific levels according to this standard.

A.1.2.3

Organization/management responsibilities should be addressed by the agency that personnel represent. The AHJ should define the agency requirements for progression to positions of management responsibility.

A.1.2.6

The committee recognizes the importance of formal continuing education and training programs to ensure HSOs and ISOs have maintained and updated the necessary skills and knowledge for the level of qualification. Continuing education and training programs can be developed or administered by local, state, or federal agencies as well as professional associations and accredited institutions of higher education. The methods of learning would include areas of technology, refresher training, skills practices, and knowledge application to standards. The subject matter should directly relate to the requirements of this standard.

A.1.3.5

It is recommended, where practicable, that evaluators be individuals who were not directly involved as instructors for the requirement being evaluated.

A.1.3.10(3)

While it is possible that the HSO might not have to meet the medical requirements of NFPA 1582, it is understood that the ISO, who should have met the Level I requirements of NFPA 1021, would have also had to meet NFPA 1001 requirements to meet those of NFPA 1021. Thus, the ISO would have had to meet the medical requirements of NFPA 1001.
2.3 Other Publications.


2.3.1 U.S. Government Publications.


2.3.2 Other Publications.


Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address: 
City: 
State: 
Zip: 
Submittal Date: Wed Jan 09 16:07:54 EST 2013

Committee Statement

Committee Statement: This addition has been added as the reference has been included as a reference within the JPR's.

Response Message:

Ballot Results

- ✔ This item has passed ballot
- 32 Eligible Voters
- 11 Not Returned
- 21 Affirmative All
  - 0 Affirmative with Comments
  - 0 Negative with Comments
  - 0 Abstention
Not Returned
Blake, Paul
Bogucki, Sandy
Finkelman, Michael L.
Garrett, Christopher A.
Laton, Michael A.
Prezant, David J.
Rueda, Mario D.
Schwartz, Andrew G.
Stewart, Donald F.
Wann, Teresa
Zagaris, Kim D.

Affirmative All
Bennett, Lawrence T.
Bernzweig, David T.
Brinkley, James E.
Childress, Dennis R.
Cuff, Jr., Thomas J.
Harms, Todd A.
Hillenbrand, Thomas
Kerwood, Scott D.
Krause, Randy J.
Lackore, J. Roger
Lopes, Tamara DiAnda
McLeod, III, Robert L.
Metheny, Jarett
Neamy, Robert D.
Pietzsch, Ryan
Raynis, Stephen
Samo, Daniel G.
Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terryn, Fred C.
2.4 References for Extracts in Mandatory Sections.


Submitter Information Verification

Submitter Full Name: Kendall Holland
Organization: [ Not Specified ]
Street Address:
City:
State:
Zip:
Submittal Date: Tue Jun 18 13:52:30 EDT 2013

Committee Statement

Committee Statement: These changes were made in order to update edition dates and the documents used as references for extracts in mandatory sections.
Response Message:
Ballot Results

✔ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
  0 Affirmative with Comments
  0 Negative with Comments
  0 Abstention

Not Returned
Blake, Paul
Bogucki, Sandy
Finkelman, Michael L.
Garrett, Christopher A.
Laton, Michael A.
Prezant, David J.
Rueda, Mario D.
Schwartz, Andrew G.
Stewart, Donald F.
Wann, Teresa
Zagaris, Kim D.

Affirmative All
Bennett, Lawrence T.
Bernzweig, David T.
Brinkley, James E.
Childress, Dennis R.
Cuff, Jr., Thomas J.
Harms, Todd A.
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Lopes, Tamara DiAnda
McLeod, III, Robert L.
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Neamy, Robert D.
Pietzsch, Ryan
Raynis, Stephen
Samo, Daniel G.
Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terryn, Fred C.
Second Revision No. 39-NFPA 1521-2013 [ Section No. 3.3.3 ]

3.3.3 Assistant.
Title for subordinates of the command staff positions; this title indicates a level of technical capability, qualifications, and responsibility subordinate to the primary functions. *(See also 3.3.44.1.1, Assistant Health and Safety Officer, and 3.3.44.2.1, Assistant Incident Safety Officer.)* [1561, 2005]

Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address:
City:
State:
Zip:
Submittal Date: Tue May 14 13:57:13 EDT 2013

Committee Statement

Committee Statement: This change was editorial in nature as the cross reference was not correct.

Response Message:

Ballot Results

✓ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
0 Abstention

Not Returned
Blake, Paul
Bogucki, Sandy
Finkelman, Michael L.
Garrett, Christopher A.
Laton, Michael A.
Prezant, David J.
Rueda, Mario D.
Schwartz, Andrew G.
Stewart, Donald F.
Wann, Teresa
### 3.3.5.2 Environmental Factors

A collection of characteristics such as weather, terrain, access/egress pathways, structural components, smoke production, fire spread potential, and other physical features at a given incident scene.

---

**Submitter Information Verification**

- **Submitter Full Name:** [Not Specified]
- **Organization:** [Not Specified]

**Committee Statement**

- **Committee Statement:** ISO JPR TG Proposal
- **Response Message:**
  - Public Comment No. 22-NFPA 1521-2012 [New Section after 3.3.5.1]

**Ballot Results**

- ✔️ This item has passed ballot
  - 32 Eligible Voters
  - 11 Not Returned
  - 21 Affirmative All
    - 0 Affirmative with Comments
    - 0 Negative with Comments
    - 0 Abstention

**Not Returned**

- Blake, Paul
- Bogucki, Sandy
- Finkelman, Michael L.
- Garrett, Christopher A.
- Laton, Michael A.
- Prezant, David J.
- Rueda, Mario D.
- Schwartz, Andrew G.
- Stewart, Donald F.
- Wann, Teresa
- Zagaris, Kim D.
Affirmative All
Bennett, Lawrence T.
Bernzweig, David T.
Brinkley, James E.
Childress, Dennis R.
Cuff, Jr., Thomas J.
Harms, Todd A.
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Lopes, Tamara DiAnda
McLeod, III, Robert L.
Metheny, Jarett
Neamy, Robert D.
Pietzsch, Ryan
Raynis, Stephen
Samo, Daniel G.
Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terryn, Fred C.
3.3.5.3 Hostile Fire Event.
A general descriptor for hazardous fire conditions, including flashover, backdraft, smoke-explosion, flameover, and rapid fire spread.

Submitter Information Verification
Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address: 
City: 
State: 
Zip: 
Submittal Date: Tue Jan 08 12:38:41 EST 2013

Committee Statement
Committee Statement: The committee has made some editorial changes to the submitted comment.
Response Message:
Public Comment No. 21-NFPA 1521-2012 [New Section after 3.3.5.1]

Ballot Results
This item has passed ballot
32 Eligible Voters
11 Not Returned
21 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
0 Abstention

Not Returned
Blake, Paul
Bogucki, Sandy
Finkelman, Michael L.
Garrett, Christopher A.
Laton, Michael A.
Prezant, David J.
Rueda, Mario D.
Schwartz, Andrew G.
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Wann, Teresa
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3.3.37 Operational Factors

The collection of strategic and tactical assignments, positions, equipment, resources, and processes utilized by incident personnel.

Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address: 
City: 
State: 
Zip: 
Submittal Date: Tue Jan 08 13:48:48 EST 2013

Committee Statement

Committee Statement: Editorial in nature.
Response Message:
Public Comment No. 23-NFPA 1521-2012 [New Section after 3.3.36]

Ballot Results

✔ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
0 Abstention

Not Returned
Blake, Paul
Bogucki, Sandy
Finkelman, Michael L.
Garrett, Christopher A.
Laton, Michael A.
Prezant, David J.
Rueda, Mario D.
Schwartz, Andrew G.
Stewart, Donald F.
Wann, Teresa
Zagaris, Kim D.
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Harms, Todd A.
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Krause, Randy J.
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Lopes, Tamara DiAnda
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Neamy, Robert D.
Pietzsch, Ryan
Raynis, Stephen
Samo, Daniel G.
Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terryn, Fred C.
Second Revision No. 54-NFPA 1521-2013 [ New Section after 3.3.38 ]

3.3.40* Rapid Intervention Crew/Company (RIC).
A minimum of two fully equipped personnel on site, in a ready state, for immediate rescue of disoriented, injured, lost, or trapped rescue personnel. [1006, 2013]

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Supplementary Information

Submittor Information Verification

Submitter Full Name: [Not Specified]
Organization: [Not Specified]
Street Address:
City:
State:
Zip:
Submittal Date: Mon May 20 09:21:32 EDT 2013

Committee Statement

Committee Statement: The committee has added this term as it is used in the document, however it was not previously defined. The committee has added additional information for the end user (annex material attached) and has been extracted as noted.

Response Message:

Ballot Results

This item has passed ballot

- 32 Eligible Voters
- 11 Not Returned
- 21 Affirmative All
  - 0 Affirmative with Comments
  - 0 Negative with Comments
  - 0 Abstention

Not Returned
Blake, Paul
Bogucki, Sandy
Finkelman, Michael L.
Garrett, Christopher A.
| Laton, Michael A.  |
| Prezant, David J. |
| Rueda, Mario D.   |
| Schwartz, Andrew G.|
| Stewart, Donald F.|
| Wann, Teresa      |
| Zagaris, Kim D.   |

**Affirmative All**

| Bennett, Lawrence T. |
| Bernzweig, David T.   |
| Brinkley, James E.    |
| Childress, Dennis R.  |
| Cuff, Jr., Thomas J.  |
| Harms, Todd A.        |
| Hillenbrand, Thomas   |
| Kerwood, Scott D.     |
| Krause, Randy J.      |
| Lackore, J. Roger     |
| Lopes, Tamara DiAnda  |
| McLeod, III, Robert L.|
| Metheny, Jarett       |
| Neamy, Robert D.      |
| Pietzsch, Ryan        |
| Raynis, Stephen       |
| Samo, Daniel G.       |
| Smith, Denise L.      |
| Stittleburg, Philip C.|
| Tamme, Susan          |
| Terryn, Fred C.       |
A.3.3.X Rapid Intervention Crew/Company (RIC).

Emergency services personnel respond to many incidents that present a high risk to personnel safety. Departments in compliance with OSHA 29 CFR 1910.134, "Respiratory protection," must have a minimum of two persons on scene fully equipped when members are operating in an atmosphere immediately dangerous to life or health (IDLH) or a potentially IDLH atmosphere. The primary purpose is the rescue of injured, lost, or trapped fire fighters. Departments utilizing an incident management system in accordance with NFPA 1561, Standard on Emergency Services Incident Management System and Command Safety, or 29 CFR 1910.120, "Hazardous waste operations and emergency response," along with a personnel accountability system, have incorporated the RIC into their management system. Many departments have redefined their response plans to include the dispatch of an additional company (engine, rescue, or truck) to respond to incidents and stand by as the RIC. Incident commanders can assign additional RICs based on the size and complexity of the incident scene. In some departments, an RIC can also be known as a rapid intervention team. At wildland incidents this would be addressed through the planning process and contingency planning. [1006, 2013].
Second Revision No. 36-NFPA 1521-2013 [Section No. 3.3.45.1]

[Excluding any Sub-Sections]

| The member of the fire department individual assigned and authorized by the fire chief as the manager of the safety and health and safety program. | 1500, 2007 |

Submitter Information Verification

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<td>Submittal Date:</td>
<td>Mon Jan 14 11:59:59 EST 2013</td>
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Committee Statement

| Committee Statement: | The committee has made this change to address the concept that the HSO might not be a uniformed or ranked member of the department. |

Ballot Results

- ✔ This item has passed ballot
- 32 Eligible Voters
- 11 Not Returned
- 21 Affirmative All
  - 0 Affirmative with Comments
  - 0 Negative with Comments
  - 0 Abstention

Not Returned

- Blake, Paul
- Bogucki, Sandy
- Finkelman, Michael L.
- Garrett, Christopher A.
- Laton, Michael A.
- Prezant, David J.
- Rueda, Mario D.
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3.3.47.1.1 Assistant Health and Safety Officer. 
A member of the fire department The individual assigned and authorized by the 
authority having jurisdiction AHJ to assist the fire department health and safety 
officer HSO in the performance of their duties and responsibilities of the HSO.

Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address:
City:
State:
Zip:
Submittal Date: Tue May 14 13:58:50 EDT 2013

Committee Statement

Committee Statement: This change was for document consistency.

Response Message:

Ballot Results

✔ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
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3.3.47.2.1 Assistant Incident Safety Officer.

An individual appointed to respond or assigned at an incident scene by the incident commander to assist the incident safety officer in the performance of the incident safety officer functions.

Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address:
City:
State:
Zip:
Submittal Date: Tue May 14 14:00:33 EDT 2013

Committee Statement

Committee Statement: This change was made for document consistency.
Response Message:

Ballot Results

✓ This item has passed ballot

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Annex E  Organization

E.1  Assignment of the Health and Safety Officer.
E.1.1*  The fire chief, the fire chief’s designated representative, or the AHJ shall appoint a fire department health and safety officer (HSO) to administer and manage the fire department occupational safety and health program.

E.1.2  The health and safety officer shall report directly to the fire chief or to the fire chief’s designated representative.

E.1.3*  Assistant health and safety officers shall be appointed when the activities, size, or character of the fire department warrants extra safety personnel.

E.1.4*  The health and safety officer shall recommend the utilization of technical specialists based on the occupational safety and health needs of the fire department.

E.2  Authority of the Health and Safety Officer.
E.2.1  The health and safety officer shall have the responsibility to identify and cause correction of health and safety hazards.

E.2.2  The health and safety officer shall have the following authority:
   (1) Cause immediate correction of situations that create an imminent hazard to members
   (2) Attend fires and other fire department activities for the purpose of operational review
   (3) Investigate accidents, injuries, and near misses

E.2.3  Where nonimminent hazards are identified, a health and safety officer shall develop actions to correct the situation within the administrative process of the fire department.

E.2.4  The health and safety officer shall have the authority to bring notice of such hazards to whoever has the ability to cause correction.

E.3  Assignment of the Incident Safety Officer.
E.3.1*  The fire department shall have a predesignated incident safety officer system to ensure that a separate incident safety officer (ISO), independent of the incident commander (IC) is appointed and responds automatically to predesignated incidents.

E.3.2*  If the predesignated incident safety officer is not available, the incident commander shall appoint an incident safety officer.

E.3.3  An additional assistant incident safety officer(s) shall be appointed when the activities, size, or need of the incident warrants extra safety personnel.

E.3.4*
Technical specialists shall be appointed by the incident commander based on the incident type, technical requirements of the incident, or as recommended by the incident safety officer or other members of the command staff.

**E.4 Authority of the Incident Safety Officer.**

**E.4.1** At an emergency incident, the incident commander shall be responsible for the overall management of the incident and the safety of all members involved at the scene. [1500:8.1.5]

**E.4.2** At an emergency incident where activities are judged by the incident safety officer as posing an imminent threat to fire fighter safety, the incident safety officer shall have the authority to stop, alter, or suspend those activities.

**E.4.3** The incident safety officer shall immediately inform the incident commander of any actions taken to correct imminent hazards at the emergency scene.

**E.4.4** At an emergency incident where an incident safety officer identifies unsafe conditions, operations, or hazards that do not present an imminent threat to fire fighters, the incident safety officer shall take appropriate action through the incident commander to mitigate or eliminate the unsafe condition, operation, or hazard at the incident scene.

**E.4.5** An assigned assistant incident safety officer(s) shall be granted the authority authorized in 4.4.2.

Submitter Information Verification

Submitter Full Name: [Not Specified]
Organization: [Not Specified]
Street Address:
City:
State:
Zip:
Submittal Date: Mon May 20 10:54:16 EDT 2013

Committee Statement

Committee Statement: The committee is adding a new annex E that is normative in nature as per the NFPA MOS section 1.9.6. While it is not part of the requirements it is written in mandatory language but is still considered for informational purposes and is not part of the requirements of the document unless specifically adopted by the jurisdiction. This is chapter 4 from the existing document and renumbered the existing chapters. Any Annex material associated with this chapter has been deleted or moved (A.4.1.1, A.4.1.3, A.4.1.4, A.4.3.1, A.4.3.2, A.4.3.4)

Response Message:

Ballot Results

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Chapter 5 Job Performance Requirements (JPRs) of the Health and Safety Officer

5.1 Scope.
This chapter shall identify the minimum job performance requirements (JPRs) for personnel performing the role of fire department health and safety officer.

5.2 Purpose.

5.2.1 The purpose of this chapter shall be to specify minimum job performance requirements for personnel performing the role of fire department health and safety officer.

5.2.2 It shall not be the intent of this chapter to restrict any jurisdiction from exceeding these requirements. [1026 :1.2.2]

5.3 General.

5.3.1 The job performance requirements shall be accomplished in accordance with the requirements of the authority having jurisdiction; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; and NFPA 1561, Standard on Emergency Services Incident Management System and Command Safety.

5.3.2 It shall not be required that the job performance requirements be mastered in the order they appear.

5.3.2.1 The authority having jurisdiction (AHJ) shall establish instructional priority and the training program content to prepare individuals to meet the job performance requirements of this standard.

5.3.3 Performance of each requirement of this chapter shall be evaluated by individuals approved by the AHJ. [1026 :1.3.3]

5.3.4 The AHJ shall establish a specific qualification process that identifies the steps to prepare a candidate for qualification at the level the candidate will be expected to perform under the auspices of that jurisdiction and to prepare the candidate in a manner consistent and compatible with the National Incident Management System (NIMS). [1026 :1.3.4]

5.3.5 Prior to being certified as fire department health and safety officer, the candidate shall meet the general knowledge and skill requirements and the job performance requirements of this chapter necessary to function safely at the kind and type(s) of incident or planned event at which a health and safety officer would operate.

5.3.6 The job performance requirements in this chapter are consistent with the Safety Officer Core Competencies published as part of the NIMS.

5.3.7
Wherever in this chapter the terms rules, regulations, procedures, supplies, apparatus, and equipment are referred to, it is implied that they are those of the AHJ. [1026:1.3.7]

5.4 Risk Management.

5.4.1 —

Develop an official written risk management plan by determining the types of risks and categorizing those risks, given injury reports, vehicle accident reports, and OSHA and the state’s Department of Labor investigations, so that the exposure to situations and occurrences that could have harmful or undesirable consequences on the organization and the individual member is minimized. The risk management plan shall cover the risks specified in Chapter 4 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*.

(A) Requisite Knowledge

Standard operating procedures (guides) (SOP/Gs), regulations, and standards as determined by the AHJ; fire behavior, building construction, personal protective equipment, and clothing; and national and local injury and health data.

(B) Requisite Skills

Ability to identify risks; develop goals, objectives, and action plans to manage those risks; analyze data; perform cost-benefit analyses.

5.4.2 —

Implement the risk management plan throughout the organization, given electronic or printed copies of the risk management plan, so that the safest work environment for the members of the organization is created.

(A) Requisite Knowledge

SOP/Gs, regulations, and standards as determined by AHJ; fire behavior, building construction, personal protective equipment, and clothing; and national and local injury and health data.

(B) Requisite Skills

Ability to identify risks; develop goals, objectives, and action plans to manage those risks; analyze data; perform cost-benefit analyses.

5.4.3 —

Manage the safety and health programs derived from the risk management plan, given process and outcome evaluations of the plan, so that modifications to the plan can be made.

(A) Requisite Knowledge

SOP/Gs, regulations, and standards as determined by AHJ; fire behavior, building construction, personal protective equipment, and clothing; and national and local injury and health data.

(B) Requisite Skills

Ability to identify risks; develop goals, objectives, and action plans to manage those risks; analyze data; perform cost-benefit analyses.

5.4.4 —

Communicate safety aspects of the risk management plan, given the integration of safety programs into training and education programs, so that the training programs offered have a basis in operating safely and safety initiatives are circulated through the organization’s training programs.

(A) Requisite Knowledge

AHJ risk management plan, resources available from Fire/EMS professional organizations, USFA, NFPA, and colleges and universities.

(B) Requisite Skills


The ability to educate and integrate health and safety aspects of the risk management program through training programs.

5.4.5

Generate electronic or printed copies of the risk management plan given reproduction facilities and/or computer resources so that the risk management plan is available to all fire department members

(A) - Requisite Knowledge.

AHJ resources available for reprinting and information technology.

(B) - Requisite Skills.

Delegate responsibility for distribution of the risk management plan.

5.4.6*

Develop safety and health programs addressing identified risks from the risk management plan, given a copy of the risk management plan, the organizational health and safety policy, a record-keeping system for data analysis, and a health and safety committee, so that the health and safety programs are implemented and maintained.

(A) - Requisite Knowledge.

Risks associated with administration, facilities, training, vehicle operation (both emergency and non-emergency), protective clothing and equipment, operations at emergency incidents, operations at non-emergency incidents, and other related activities.

(B) - Requisite Skills.

Risk identification, risk evaluation, establishment of priorities for action (frequency and severity), risk control techniques, and risk management monitoring (process and outcome evaluations).

5.4.7

Monitor the risk management plan, given an evaluation process that compares the organization before and after implementation of the safety program, so that it can be determined if the safety program is effective, to gauge the response to the program from the organization’s member’s perspective, and to facilitate program changes.

(A) - Requisite Knowledge.

Process and outcome evaluation.

(B) - Requisite Skills.

Compiling and analyzing injury data, obtaining feedback from personnel, and observing performance and behavior changes.

5.4.8

Revise the risk management plan annually given the AHJ records and reports on injuries and investigations, so that the risks are identified, evaluated, and controlled through the health and safety programs.

(A) - Requisite Knowledge.

Process and outcome evaluation processes.

(B) - Requisite Skills.

Compiling and analyzing injury data, obtaining feedback from personnel, and observing performance and behavior changes.
Develop an incident risk management plan, given the fire department’s incident management system, so that the organization can provide the highest level of accountability and effectiveness, maintain effective span of control, and provide a framework for breaking a major incident into manageable tasks.

(A) – Requisite Knowledge.

(B) – Requisite Skills.
Incorporate the roles of the command staff and general staff into the risk management plan.

5.4.10 –

Develop a risk management plan, given the requirements of Chapter 8 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so that the risk management plan incorporates incident management at all emergency operations.

(A) –
Requisite Knowledge. HSPD-5 (NIMS) and HSPD-8 (NRF), other applicable federal, state, and local regulations; and applicable NFPA standards.

(B) –
Requisite Skills. Incorporate the roles of the command staff and general staff into the risk management plan.

5.5 – Laws, Codes, and Standards.

5.5.1* –

Develop, maintain, and present SOP/Gs pertaining to the fire department occupational safety and health program to the fire chief or the fire chief’s designated representative, given health and safety laws, codes, and standards, so that the SOP/Gs follow health and safety laws, codes, and standards.

(A) – Requisite Knowledge.
Applicable health and safety laws, codes, and standards pertaining to the fire service; standardized format or template for writing SOP/Gs; criteria to determine effectiveness of fire department operations and training practices; and a list of required safety subjects to address, including selection criteria.

(B) – Requisite Skills.
Writing and critical thinking skills; ability to understand health and safety laws, codes, and standards pertaining to the fire service; and ability to transcribe applicable material into SOP/Gs.

5.5.2 –

Assess and report semiannually to the fire chief or the fire chief’s designated representative the adequacy and effectiveness of and compliance with applicable health and safety laws, codes, standards, SOP/Gs, and recordkeeping practices, given access to current state/provincial and federal safety and health legislation, codes, regulations, and applicable standards and a thorough knowledge of operations, policies and training, so that it can be determined that the fire department is in compliance with the applicable laws, codes, and standards.

(A) – Requisite Knowledge.
Applicable laws, codes, and standards pertaining to the fire service; the fire department’s SOP/Gs.

(B) – Requisite Skills.
Writing and critical thinking and the ability to understand health and safety laws, codes, and standards pertaining to the fire service.
5.5.3 Develop the role of the health and safety officer, given compliance with the applicable health and safety laws, codes, standards, and SOP/Gs, so that it can be determined that the fire department is in compliance with the applicable laws, codes, and standards.

(A) Requisite Knowledge:
Applicable laws, codes, and standards pertaining to the fire service; the fire department’s SOP/Gs.

(B) Requisite Skills:
Ability to understand health and safety laws, codes, and standards pertaining to the fire service.

5.6 Training and Education.

5.6.1 Develop and distribute health and safety information for the education of fire department members, given NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, SOP/Gs, and health and safety policies used by the AHJ, so that members can be trained in the organization’s health and safety procedures relating to all fire department operations and functions.

(A) Requisite Knowledge:
SOP/Gs and health and safety policies used by the AHJ; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; and AHJ codes, standards, and regulations that relate to the fire department occupational safety and health program.

(B) Requisite Skills:
Analyzing information from different data sources; interpersonal and organizational interaction.

5.6.2 Evaluate the training of fire department members on the organization’s health and safety procedures, given NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; SOP/Gs; and the health and safety policies used by the AHJ, so that members operate safely at all fire department operations and functions.

(A) Requisite Knowledge:
SOP/Gs and health and safety policies used by the AHJ; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; AHJ codes, standards, and regulations that relate to the fire department occupational safety and health program.

(B) Requisite Skills:
Analyzing information from different data sources; interpersonal and organizational interaction.

5.6.3 Develop corrective actions to submit through the chain of command to the fire chief, given a list of recommendations arising from the investigation of accidents, injuries, occupational deaths, illnesses, and exposures and the observation of incident scene activities, so that future occurrences of these problems are eliminated or reduced.

(A) Requisite Knowledge
Applicable federal, state, and local laws, standards, and regulations; SOP/Gs and health and safety policies used by the AHJ; life-threatening and non-life-threatening occupational injuries and illnesses; procedures for conducting, documenting, recording, and reporting safety and health investigations; procedures for preserving evidence and documentation, and the technical knowledge pertinent to the incident(s) under investigation.

(B) Requisite Skills.
Analyzing information from different data sources; interacting with or interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining corrections to prevent similar future losses.

5.6.4

Develop live training evolution procedures to be incorporated into an SOP/G, given a list of live training evolutions utilized by the AHJ, so that safety supervision is provided at all live training activities.

(A) Requisite Knowledge.
SOP/Gs and health and safety policies used by the AHJ; live training evolutions used by the AHJ; life-threatening and non-life-threatening occupational injuries and illnesses.

(B) Requisite Skills.
Ability to develop SOP/Gs, use resources for determining code compliance, and complete reporting and documentation requirements.

5.6.5

Develop live fire training evolution procedures to be incorporated into an SOP/G, given a list of NFPA 1403, Standard on Live Fire Training Evolutions, requirements, so that safety supervisors can be trained to provide safety supervision at all live fire training activities.

(A) Requisite Knowledge.
SOP/Gs and health and safety policies used by the AHJ, live training evolutions used by the AHJ, and life-threatening and non-life-threatening occupational injuries and illnesses.

(B) Requisite Skills.
Ability to develop SOP/Gs, use resources for determining code compliance, and complete reporting and documentation requirements.

5.6.6

Develop live fire training evolution procedures to be incorporated into an SOP/G, given a list of NFPA 1403, Standard on Live Fire Training Evolutions, requirements, so that safety supervision is provided at all live fire training activities.

(A) Requisite Knowledge.
SOP/Gs and health and safety policies used by the AHJ, live training evolutions used by the AHJ, and life-threatening and non-life-threatening occupational injuries and illnesses.

(B) Requisite Skills.
Ability to develop SOP/Gs, use resources for determining code compliance, and complete reporting and documentation requirements.

5.6.7
Conduct a preburn inspection of an acquired structure to be utilized for live fire training, given a list of NFPA 1403, *Standard on Live Fire Training Evolutions*, requirements, so that the requirements of NFPA 1403, *Standard on Live Fire Training Evolutions*, are met.

(A) — Requisite Knowledge—
SOP/Gs and health and safety policies used by the AHJ, live training evolutions used by the AHJ, and life-threatening and non-life-threatening occupational injuries and illnesses.

(B) — Requisite Skills—
Ability to develop SOP/Gs, use resources for determining code compliance, and complete reporting and documentation requirements.

5.7 — Accident Prevention.

5.7.1 —
Manage the fire department’s accident prevention program, given safe work practices, training, and testing of vehicle drivers and operators; surveys; and reports, so that the program meets the requirements specified in Section 5.4; safety work practices are complied with, and recommendations are forwarded to the fire chief.

(A) — Requisite Knowledge—
Understand the necessary components of a fire department accident prevention program, and the procedures for developing recommendations based on fire department audits, incident reports, surveys, accident reports, injury reports, inspection reports, and other applicable department information.

(B) — Requisite Skills—
Analyzing the components necessary to be included in a fire department accident prevention program based on the requirements of Section 5.8; analyzing information from different sources; interacting with or interviewing personnel associated with the various aspects of the fire department that relate to operations, apparatus, equipment, fire department facilities, and SOP/Gs.

5.7.2 —
Provide training in safe work practices for emergency and nonemergency operations given the fire department’s risk management plan, SOP/Gs, and training curriculum, so that members can perform their job tasks in a safe and effective manner.

(A) — Requisite Knowledge—
Procedures for conducting job tasks based on department SOP/Gs, the department’s risk management plan, health and safety policies used by the AHJ, and the technical knowledge pertinent to perform various job tasks.

(B) — Requisite Skills—
Analyzing information from different sources, interacting with or interviewing personnel associated with training of department members, and delivery methods of instructional materials.

5.7.3 —
Develop an accident prevention program that addresses the necessary components for training and testing all fire department drivers and operators, given fire department policy and applicable traffic laws, so that fire department vehicle operators are proficient in the safe operation of fire apparatus.

(A) — Requisite Knowledge—
Procedures for driving and operating fire apparatus based on department SOP/Gs, health and safety policies used by the AHJ, and applicable traffic laws.

(B) — Requisite Skills
Analyzing information from different sources, interacting with or interviewing personnel associated with training of department members, and delivery methods of instructional materials.

5.7.4

Conduct a periodic safety audit, given fire department operations, apparatus, equipment, facilities, and SOP/Gs, so that safe work practices and procedures are maintained, and ensure compliance with federal, state/provincial, and local laws.

(A) - Requisite Knowledge.
Understand safe work practices and procedures for fire department operations, apparatus, equipment, and fire department facilities based on SOP/Ss and federal, state/provincial, and local laws.

(B) - Requisite Skills.
Analyzing information from different sources; interacting with or interviewing personnel associated with training of department members; and delivery methods of instructional materials.

5.8

Accident Investigation, Procedures, and Review.

5.8.1

Conduct a safety and health investigation, given an incident or planned event in which there is an occupational injury, illness, exposure, fatality, near miss, or other potentially hazardous condition involving fire department members, and all accidents involving fire department vehicles, apparatus, equipment, or facilities, and the SOP/Gs and health and safety policies used by the AHJ, so that the facts and the root cause of the incident are correctly identified, deviations from SOP/Gs established by the AHJ and health and safety policies are noted, corrective recommendations are made for preventing similar losses in the future, and all information gathered in the investigation is documented, reported, and recorded according to policies established by the AHJ.

(A) - Requisite Knowledge.
Procedures for conducting, documenting, recording, and reporting a safety and health investigation, SOP/Gs and health and safety policies used by the AHJ, procedures for preserving evidence and documentation, and the technical knowledge pertinent to the incident under investigation, and federal, state/provincial, and local laws.

(B) - Requisite Skills.
Analyzing information from different data sources; interacting with or interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining recommendations to prevent similar future losses.

5.8.2

Develop safety and health procedures for treating and transporting members with injuries and illnesses to be incorporated into an SOP/G, given applicable documents and techniques provided by the AHJ, so that the SOP/G ensures that all life-threatening and non-life-threatening occupational injuries, illnesses, and exposures involving fire department members will receive immediate emergency medical care and transportation to the most appropriate medical or health care facility.

(A) - Requisite Knowledge.
SOP/Gs and health and safety policies used by the AHJ, life-threatening and non-life-threatening occupational injuries and illnesses, and the technical knowledge pertinent to developing and reviewing SOP/Gs and EMS policy and procedures.

(B) - Requisite Skills.
Analyzing information from different data sources; interacting with or interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining recommendations to prevent similar future losses.

5.8.3

Apply safety and health procedures for treating and transporting members with injuries and illnesses, given an incident or planned event, applicable documents, techniques, and SOP/Gs, so that all life-threatening occupational injuries and illnesses are provided immediate emergency medical care and transportation to the most appropriate medical facility, and non-life-threatening occupational injuries, illnesses, and exposures are treated at the most appropriate medical or health care facility.

(A) —Requisite Knowledge.
SOP/Gs and health and safety policies used by the AHJ, life-threatening and non-life-threatening occupational injuries and illnesses, and the technical knowledge pertinent to developing and reviewing SOP/Gs and EMS policy and procedures.

(B) —Requisite Skills.
Analyzing information from different data sources; interacting with or interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining recommendations to prevent similar future losses.

5.8.4

Develop accident and injury reporting and investigation procedures given an incident or planned event, applicable documents, techniques and SOP/Gs, and all applicable laws, regulations, and standards so that procedures are reviewed and all local, state/provincial, and federal requirements are met, documentation is completed, and recommendations for revision are made.

(A) —Requisite Knowledge.
Procedures for developing and reviewing accident and injury reporting and investigation; SOP/Gs and health and safety policies used by the AHJ; all applicable federal, state/provincial, and local laws, regulations, and standards.

(B) —Requisite Skills.
Analyzing information from different data sources; interacting with or interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining recommendations to prevent similar future losses.

5.8.5

Conduct a post-incident analysis of the procedures employed during any unusual hazardous operation, given an incident or planned event, SOP/Gs established by the AHJ, necessary technical knowledge, and all applicable laws, regulations, and standards, so that risks to personnel are identified, reduced, or eliminated at future incidents and the AHJ SOP/Gs are reviewed and revised as needed.

(A) —Requisite Knowledge.
Technology pertinent to safety and health for the incident type, including but not limited to confined space entry; heavy equipment operation; rigging and hoisting; building construction; structural collapse; excavation and shoring; use and application of personal protective equipment (PPE); chemical, biological, radiological, and physical (e.g., noise, heat stress) hazards; potential risks of extended work shifts (work-rest cycles); professionally accepted procedures and tools; fire safety; vehicle work zone safety; SOP/Gs and health and safety policies used by the AHJ; and all applicable federal, state/provincial, and local laws, regulations, and standards.

(B) Requisite Skills.
Recognizing hazards at an emergency scene, communicating hazard information to personnel directly or through the ICP, determining methods for correcting health and safety hazards, reviewing actions taken to ensure policies were followed, and formulating recommendations for the post-incident analysis.

5.9 Records Management and Data Analysis.

5.9.1* Manage the collection and analysis of data related to accidents, occupational deaths, injuries, illnesses, and exposures to infectious agents and communicable diseases, given the requirements of Chapter 4 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so that the data summarize fire department experience in different categories; comparisons can be made with other fire departments, national trends, and occupations and industries; and the information can be accessed for future reference and use.

(A) Requisite Knowledge.
Procedures for tabulating and compiling accident and injury data; SOP/Gs and health and safety policies used by the AHJ.

(B) Requisite Skills.
Basic statistical analysis in spreadsheets or other appropriate software; identifying cause(s) of trends in injury, death, or property damage; and determining corrections to prevent similar future losses.

5.9.2 Develop, document, and maintain corrective actions to mitigate health and safety hazards and unsafe practices, given identification of such hazards from accident and injury reports and any other investigation reports, so that root causes are determined and controls can be put in place to help prevent future occurrences.

(A) Requisite Knowledge.
Procedures for developing and reviewing accident and injury reports and corrective actions; SOP/Gs and health and safety policies used by the AHJ; records management policies of the AHJ.

(B) Requisite Skills.
Writing reports and identifying root cause(s) of injury, death, or property damage; basic records management.

5.9.3 Manage and maintain records regarding the periodic inspection and service testing of fire apparatus and equipment, inspection and service testing of personal safety equipment, and fire department facilities, given. NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so that records are accessible and in a format that can be easily analyzed.

(A) Requisite Knowledge.
Procedures for management of records.

(B) Requisite Skills.
Records management and organization.

5.9.4
Maintain records of control measures implemented to enhance health and safety procedures and accident prevention methods, given evidence of control measures implemented, so that records of control measures are accessible and in a format that is appropriate for analysis.

(A) Requisite Knowledge:
Procedures for record keeping.

(B) Requisite Skills:
Records management.

5.9.5

Produce semiannually a report to the fire chief on fire department accidents, occupational injuries, illnesses, deaths, and exposures, given the accident and injury data, so that a set of recommendations is created.

(A) Requisite Knowledge:
Procedures for developing recommendations based on fire department audits, incident reports, surveys, accident reports, injury reports, inspection reports, and other applicable department information.

(B) Requisite Skills:
Analyzing information from different sources and interacting with or interviewing personnel associated with the various aspects of the fire department that relate to operations, apparatus, equipment, fire department facilities, and SOP/Gs.

5.10

5.10.1

Research new fire apparatus technology and develop new specifications or revise existing specifications for given technological improvements, risks identified in the risk management plan, available resources, and existing fire apparatus specifications so that the specifications meet the fire department needs identified in the risk management plan, are compliant with federal, state/provincial, and local laws, appropriate revisions are recommended, and the specifications are properly documented.

(A) Requisite Knowledge:
Chapter 6 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial, and local laws that relate to fire apparatus specifications; current fire apparatus specification procedures; resources for conducting fire apparatus specifications; equipment necessary for conducting fire apparatus specifications; and procedures, equipment, and safety precautions for conducting fire apparatus specifications.

(B) Requisite Skills:
Ability to develop fire apparatus specifications, use resources for determining code compliance, and complete reporting and documentation requirements.

5.10.2

Research new fire equipment technology and develop new specifications or revise existing specifications, given technological improvements, risks identified in the risk management plan, available resources, and existing fire equipment specifications, so that the specifications meet the fire department needs identified in the risk management plan and are compliant with federal, state/provincial, and local laws; appropriate revisions are recommended; and the specifications are properly documented.

(A) Requisite Knowledge,
Chapter 6 of NFPA 1500: Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial, and local laws that relate to fire equipment specifications; current fire equipment specification procedures; equipment necessary for conducting fire equipment specifications; and procedures, equipment, and safety precautions for conducting fire equipment specifications.

(B) Requisite Skills.

Ability to develop fire equipment specifications, use resources for determining code compliance, and complete reporting and documentation requirements.

5.10.3

Research protective clothing and equipment technology and develop new specifications or revise existing specifications, given technological improvements, risks identified in the risk management plan, available resources, and existing protective clothing and equipment specifications, so that the specifications meet the fire department needs identified in the risk management plan and are compliant with federal, state/provincial, and local laws; appropriate revisions are recommended; and the specifications are properly documented.

(A) Requisite Knowledge.

Chapter 7 of NFPA 1500: Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial, and local laws that relate to fire equipment; and current state of technology in the appropriate areas of protective clothing and equipment; procedures, equipment, and safety precautions for the use of protective clothing and equipment; and the organization’s risk management plan.

(B) Requisite Skills.

Ability to develop protective clothing and equipment specifications, use resources for determining code compliance, and complete reporting and documentation requirements.

5.10.4

Assist with the development of recommendations for new fire equipment based on results of evaluations, given applicable provisions of NFPA 1500: Standard on Fire Department Occupational Safety and Health Program, so that the recommendations for new equipment are accepted and approved by the AHJ.

(A) Requisite Knowledge.

Chapter 6 of NFPA 1500: Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial, and local laws that relate to fire equipment; and current fire equipment evaluation procedures and results.

(B) Requisite Skills.

Ability to conduct fire equipment recommendations, use resources for determining code compliance and complete reporting and documentation requirements.

5.10.5

Assist with the development of recommendations for service testing of apparatus and equipment based on results of evaluations, given applicable provisions of NFPA 1500: Standard on Fire Department Occupational Safety and Health Program, so that the recommendations for service testing of apparatus and equipment are accepted and approved by the AHJ.

(A) Requisite Knowledge.

Chapter 6 of NFPA 1500: Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial, and local laws that relate to service testing of apparatus and equipment; and current service testing of apparatus and equipment procedures and results.

(B) Requisite Skills.
Ability to conduct service testing of apparatus and equipment recommendations, use resources for determining code compliance, complete reporting and documentation requirements.

5.10.6

Develop, implement, and maintain a protective clothing and equipment program that provides for the selection, care, maintenance, storage, and periodic inspection and evaluation of all protective clothing and equipment, given NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; SOP/Gs established by the AHJ, and all applicable laws, regulations, and standards, so that protective clothing and equipment are safe for use.

(A) - Requisite Knowledge,

Chapter 7 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial, and local laws that relate to protective clothing and equipment programs.

(B) - Requisite Skills.

Ability to develop protective clothing and equipment program, use resources for determining code compliance, complete reporting and documentation requirements.

5.11 - Facility Inspection.

5.11.1

Initiate and coordinate a health and safety inspection program for a fire department facility, given the requirements of Chapter 9 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; and a facility that requires an inspection and available resources so that the appropriate inspection procedures are selected and implemented, all applicable code violations and safety and health hazards are noted and correctly documented, the inspection is conducted safely, all the required reports are correctly completed, and the violations are corrected in a prompt and timely manner.

(A) - Requisite Knowledge,

Chapter 9 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; federal, state/provincial, and local laws; current facility inspection procedures; resources for conducting a facility inspection; equipment necessary for conducting a facility inspection; and the procedures, equipment, and safety precautions for conducting facility inspections.

(B) - Requisite Skills.

Ability to acquire resources to initiate and coordinate a facility inspection, use resources for determining code compliance, complete reporting and documentation requirements.

5.12 - Health Maintenance.

5.12.1

Analyze the fire department health maintenance program, given the medical and physical requirements of Chapter 10 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so that the program meets the requirements of Chapter 10 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and include medical, physical performance, and health and fitness requirements, as well as a health database, infectious control procedures, a fire department physician, and fitness-for-duty evaluations.

(A) - Requisite Knowledge,
Chapters 10, 11, and 12 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*; AHJ codes, standards, and regulations that relate to a fire department health maintenance program; the current fire department health maintenance program; medical surveillance, wellness programs, physical fitness, nutrition, and injury and illness rehabilitation programs; resources for conducting a fire department health maintenance program; equipment necessary for a fire department health maintenance program; and procedures, equipment, and safety precautions for a fire department health maintenance program and critical incident stress programs.

**(B) Requisite Skills.**

Analyze and incorporate information from health maintenance programs; interact with or interview personnel associated with health and wellness programs.

### 5.13 Liaison

#### 5.13.1

The health and safety officer shall be a member of the fire department occupational health and safety committee.

#### 5.13.2

Report and submit recommendations from the fire department occupational health and safety committee, given SOP/Gs and health and safety policies used by the AHJ so that the Fire Chief or the Fire Chief’s designated representative are briefed on the recommendations.

**(A) Requisite Knowledge.**

SOP/Gs and health and safety policies used by the AHJ; NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*; AHJ codes, standards, and regulations that relate to the fire department occupational safety and health committee.

**(B) Requisite Skills.**

Acquiring recommendations from the health and safety committee; evaluating the recommendations and communicating them in such a manner that recommendations are successfully up-channelled and objectives are met.

#### 5.13.3

Provide information and assistance for adverse effects on fire department operations, given an incident or planned event, the fire department’s risk management plan, and SOP/Gs, so that that members can perform their job tasks in a safe and effective manner.

**(A) Requisite Knowledge.**

Procedures for conducting job tasks based on department SOP/Gs, the department’s risk management plan, health and safety policies used by the AHJ, and the technical knowledge pertinent to perform various job tasks.

**(B) Requisite Skills.**

Ability to evaluate and prioritize hazards, critical thinking to analyze the hazard, select the most appropriate control measure, and evaluate its effectiveness in enhancing fire fighter safety.

#### 5.13.4

Assist with the development of recommendations for changes in equipment, procedures, and methods based on results of evaluations, given recommendations from the fire department occupational safety and health committee, safety audits, analysis of injury statistics or other reliable sources of hazardous conditions or injury data, so that the recommendations for equipment, procedures, and methods are accepted and approved in accordance with the AHJ.
5.13.5 Assist the fire department physician with administering needed medical advice and treatment to the members of the fire department, given access to fire department members, understanding of occupational medicine for the fire service, and the IAFF/IAFC Wellness Initiative, so that members’ health and safety are protected.

(A) Requisite Knowledge.
Medical requirements for members as per NFPA 1582 - Standard on Comprehensive Occupational Medical Program for Fire Departments. IAFC/IAFF Joint Voluntary, Non-Punitive Wellness program, health hazards associated with fire fighting, chemistry of fire, limitations of PPE, and current occupational safety and health practices.

(B) Requisite Skills
Occupational medicine, diagnostic skills, current preventive medical practices, and interpersonal skills.

5.14 Occupational Safety and Health Committee.

5.14.1 Ensure the establishment of a health and safety committee, given the risk management plan, the organization’s health and safety policy, and a record-keeping system for data analysis so that the committee is composed of members identified from NFPA 1500 - Standard on Fire Department Occupational Safety and Health Program, Section 4.5.1.1.

(A) Requisite Knowledge.
Duties of the safety committee, with a clear understanding of their roles and responsibilities, SOP/Gs, and the organization’s health and safety policy.

(B) Requisite Skills
Interpersonal and organizational skills to establish a safety committee with representation from all levels of the organization.

5.14.2 Serve as a member on the occupational safety and health committee, given the appointment by the Fire Chief or AHJ as the designated health and safety officer so that the requirements of NFPA 1500 - Standard on Fire Department Occupational Safety and Health Program, Section 4.5, are met.

(A) Requisite Knowledge.
Duties of the safety committee, with a clear understanding of their roles and responsibilities, SOP/Gs, the organization’s health and safety policy, and NFPA 1500 - Standard on Fire Department Occupational Safety and Health Program, Section 4.5.

(B) Requisite Skills
Ability to conduct research, develop recommendations, and study and review materials pertaining to occupational safety and health within the fire department.

5.15 Infection Control.

5.15.1 -
Assess the fire department's infection control program, given a copy of the department's program, so that the requirements of 29 CFR 1910.1030, "Bloodborne Pathogens"; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; and NFPA 1581, Standard on Fire Department Infection Control, are met.

(A) - Requisite Knowledge:
29 CFR 1910.1030, "Bloodborne Pathogens"; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; and NFPA 1581, Standard on Fire Department Infection Control.

(B) - Requisite Skills:
Acquire and document infection control procedures; coordination skills necessary to revise program. Ability to assess the requirements based on 29 CFR 1910.1030, "Bloodborne Pathogens"; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; and NFPA 1581, Standard on Fire Department Infection Control.

5.15.2

Function as the fire department infection control officer, if an infection control officer position does not exist in the fire department, given the requirements of 29 CFR 1910.1030, "Bloodborne Pathogens"; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; and NFPA 1581, Standard on Fire Department Infection Control, so that the objectives of the infection control program as specified in NFPA 1581, Standard on Fire Department Infection Control, are met.

(A) - Requisite Knowledge:
29 CFR 1910.1030, "Bloodborne Pathogens"; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; NFPA 1581, Standard on Fire Department Infection Control; and the roles and responsibilities of an infection control officer.

(B) - Requisite Skills:
Acquiring and documenting infection control procedures; coordination skills necessary to revise the program; ability to assess the requirements based on 29 CFR 1910.1030, "Bloodborne Pathogens"; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; and NFPA 1581, Standard on Fire Department Infection Control.

Supplemental Information

File Name | Description
--- | ---
Annex_Adjustments_to_new_Ch4_-_old_Ch5.docx | Annex Adjustments for new Ch4 - old Ch5
NEW_Chapter_4_Health_and_Safety_Officer.docx | new Ch4 - old Ch5

Submitter Information Verification
Committee Statement

Committee Statement: The committee has rewritten the document and this chapter was renumbered to Chapter 4 because existing Chapter 4 has been moved to Annex E. Changes were extensive, so whole chapter is being shown as new in lieu of legislative mark-up. Related Annex material has been renumbered appropriately. Additional new Annex material is attached, with instructions for deletions and minor editorial changes to other Annex sections.

Response Message:
Public Comment No. 26-NFPA 1521-2012 [Chapter 5]

Ballot Results

✔ This item has passed ballot

- 32 Eligible Voters
- 11 Not Returned
- 21 Affirmative All
  - 0 Affirmative with Comments
  - 0 Negative with Comments
  - 0 Abstention

Not Returned
Blake, Paul
Bogucki, Sandy
Finkelman, Michael L.
Garrett, Christopher A.
Laton, Michael A.
Prezant, David J.
Rueda, Mario D.
Schwartz, Andrew G.
Stewart, Donald F.
Wann, Teresa
Zagaris, Kim D.

Affirmative All
Bennett, Lawrence T.
Bernzweig, David T.
Brinkley, James E.
Childress, Dennis R.
Cuff, Jr., Thomas J.

http://submittals.nfpa.org/TerraViewWeb/ContentFetcher?commentParams=%28%28CommitteeId%3D1%29%2CCommittee%29
Harms, Todd A.
Hillenbrand, Thomas
Kerwood, Scott D.
Krause, Randy J.
Lackore, J. Roger
Lopes, Tamara DiAnda
McLeod, III, Robert L.
Metheny, Jarett
Neamy, Robert D.
Pietzsch, Ryan
Raynis, Stephen
Samo, Daniel G.
Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terryn, Fred C.
These Annex adjustments have been numbered as Ch5 so they can be matched with existing text, but after changes have been incorporated, entire chapter will become Chapter 4.

This has been added to provide further clarification for the end user.

A.5.1.2 (will be A.4.1.2)

In cases where a member sustains a serious or fatal injury, the HSO could be viewed as a witness as opposed to an investigator. In such cases, the designated HSO should notify the AHJ to fulfill the investigative requirements of the department.

This text has been added to provide for further clarification of the requirement.

A.5.2.4 (will be A.4.2.4)

An operational risk management plan should assist the IC and fire department members in making sound, knowledgeable decisions when declaring the risk mode (going offensive or defensive) and developing specific strategies and accompanying tactics to reach operational objectives, assign human and equipment resources, and note specific safety considerations to mitigate the incident.

The committee has added this annex material in order to provide the end user with further clarification and direction.

A.5.5.1 (will be A.4.5.1)

The following examples include but are not limited to areas that should be utilized to reduce the frequency and severity of accidents, occupational injuries, and occupational illnesses:

1. Hazard recognition, assessment, control, monitoring, and evaluation
2. Risk management principles and practices
3. Review/evaluation of SOP/Gs
4. Review of accident, occupational injury, and occupational illness data
5. Facility inspections program (i.e., slips, trips, falls, cuts, etc.)
6. Health maintenance and monitoring program (i.e., wellness, fitness, nutrition, stress reduction, musculoskeletal disorder prevention, exposure protection, etc.)
7. Review of department training and education programs

The committee has added these 3 new annex items as they believe it provides the end user with further clarification and direction. (will be A.4.9.1, A.4.9.2, A.4.11.5)

A.5.9.1 This should include food handling and food storage, with particular attention paid to food preparation and serving surfaces; cookware; service vessels and utensils; and safe hot water temperatures in kitchens, showers, and other sources to prevent scalds. The inspection procedure should also consider blocked hallways, staircases, unlit areas, and so forth, for clothing and other debris that would expose fire
fighters and other people present to hazards; and security for the protection of a company leaving an empty firehouse, with special attention given upon return to objects that do not belong there.

A.5.9.2 A checklist or audit template as identified in Annex F of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, or equivalent, is strongly recommended when conducting these inspections.

A.5.11.5 This includes the mitigation of health and safety hazards brought about by disruptions due to parades, ball games, visitors to the fire station, street construction, or other events or activities associated with the district or the fire station.

From old Chapter 5, delete:

A.5.3.2
A.5.3.3
A.5.3.4
A.5.3.6

a duplicate version of A.5.4.6 was removed.

A.5.5.1
A.5.9.1

The following existing sections received minor editorial changes from other SRs:

A.5.4.1
A.5.4.2
A.5.4.3
A.5.4.6
A.5.5.2
A.5.7.2
A.5.9.2
Chapter 4 Health and Safety Officer

4.1 General.

4.1.1

The fire department health and safety officer (HSO) shall meet the job performance requirements (JPRs) defined in Sections 4.2 through 4.12.

4.1.2*

A fire department HSO shall recuse himself/herself from any investigatory process where a conflict of interest exists.

4.2* Risk Management.

4.2.1*

Develop an organizational risk management plan that addresses the risks specified in Chapter 4 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, given injury reports, vehicle incident reports, near-miss or equipment malfunction or failure reports, and other reports as determined by the AHJ, so that risks are identified, categorized, and control measures are implemented and monitored.

(A) Requisite Knowledge.

Standard operating procedures/guidelines (SOP/Gs), regulations and standards as determined by AHJ; fire behavior, building construction, proper use and performance limitations of protective clothing and protective equipment; national and local injury and health data.
(B) Requisite Skills.

Ability to identify risks; develop goals, objectives, and action plans to manage those risks; analyze data; perform cost-benefit analysis.

4.2.2*

Manage an organizational risk management plan, given an organization, organizational activities, a risk management plan and a communications method for distributing the plan, so that the plan is communicated to the members of the organization, elements of the plan are integrated into the organizational operation, needed modifications are identified, and the modifications are implemented.

(A) Requisite Knowledge.

SOP/Gs, regulations and standards as determined by the AHJ; fire behavior, building construction, proper use and performance limitations of protective clothing and protective equipment, hazards associated with various types of emergency and nonemergency locations; national and local injury and health statistics; and communications methods used by the AHJ.

(B) Requisite Skills.

Ability to identify risks, develop goals, objectives, and action plans to manage those risks; perform cost-benefit analysis; compile and analyze data, obtain feedback from personnel, and observe performance and behavior changes; revise plans and communicate the revisions.

4.2.3*
Implement safety provisions of the organization’s risk management plan into training and education programs, given a organizational risk management plan, a training or education program, and organizational goals and objectives, so that the organization's risk management program is incorporated into the training and education programs, records are maintained, and the training and education programs meet the stated operational safety goals and objectives for emergency and nonemergency incidents.

(A) Requisite Knowledge.

AHJ risk management plan; data analysis from AHJ safety and incident reports; local, state, and federal safety programs; organizations with safety programs; outreach sources available from professional organizations for safety development programs; risks associated with administration, facilities, training, vehicle operations (both emergency and nonemergency); proper use and performance limitations of protective clothing and protective equipment; operations at emergency incidents, operations at nonemergency incidents, and other related activities.

(B) Requisite Skills.

Ability to educate and integrate health and safety aspects of the risk management program into training and education programs; risk identification, risk evaluation, establishment of priorities for action (frequency and severity), risk control techniques, and risk management monitoring (process and outcome evaluations).

4.2.4*

Develop an operational risk management plan given the requirements of Chapter 8 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so
that an incident management system (IMS) that meets the requirements of NFPA 1561, *Standard on Emergency Services Incident Management System and Command Safety*, is established with written SOP applying to all members involved in emergency operations.

**(A) Requisite Knowledge.**

IMS for the AHJ; NFPA 1561, *Standard on Emergency Services Incident Management System and Command Safety*; Homeland Security Presidential Directives 5 (National Incident Management System) and 8 (National Response Framework); other applicable federal, state and local regulations and applicable NFPA standards.

**(B) Requisite Skills.**

Utilize the IMS at all emergency incidents, drills, and exercises; management of the incident and the safety of all members involved at the scene by the IC; divide the incident into tactical-level management components as incidents escalate in size and complexity, assign an ISO to assess the incident scene for hazards or potential hazards; establish the organization of the command staff and general staff to control the position and function of all members operating at the scene and to ensure that safety requirements are satisfied.

4.2.5

Develop a plan for the treatment and transport of an injured or ill member to a medical or health care facility, given applicable resources, policies and procedures, and SOP/Gs, so that the procedure ensures that all members with life-threatening and non-life-threatening occupational injuries, illnesses, and exposures will receive immediate treatment.
emergency medical care and, if necessary, transportation to the most appropriate medical or health care facility.

(A) Requisite Knowledge.

SOP/Gs and health and safety policies used by the AHJ; life-threatening and non-life-threatening occupational injuries, and illnesses; and the technical knowledge necessary to develop and review SOP/Gs and EMS policy and procedures.

(B) Requisite Skills.

The ability to determine the level of care needed if a member becomes ill or injured; and develop SOP/Gs for transportation of injured members.

4.3 Laws, Codes, and Standards.

4.3.1

Establish SOP/Gs for an occupational health and safety program, given an organization, applicable laws, codes, and standards, an established SOP/Gs template, so that the information is in a presentable format for fire department official review and adoption, the procedures and guidelines comply with applicable laws, codes, and standards, and the SOPs/Gs are reviewed and revised, as needed.

(A) Requisite Knowledge.

Applicable health and safety laws, codes, and standards pertaining to the fire service; standardized format or template for writing SOP/Gs; criteria to determine effectiveness
of fire department operations and training practices; and a list of required safety subjects to address, including selection criteria.

(B) Requisite Skills.

Writing and critical thinking skills; ability to understand health and safety laws, codes, and standards pertaining to the fire service; and transcribe applicable material into SOP/Gs.

4.3.2* Assess and report the adequacy and effectiveness of compliance with occupational health and safety SOP/Gs, given access to current state/provincial and federal safety and health legislation, codes, regulations, and standards and a thorough knowledge of organizational operations, policies and training, so that accurate information on fire department compliance with the applicable laws, codes, standards, and SOP/Gs is communicated to the AHJ.

(A) Requisite Knowledge.

Applicable laws, codes, and standards pertaining to the fire service, fire department SOP/Gs, and a method for evaluating compliance

(B) Requisite Skills. Writing and critical thinking skills; ability to understand health and safety laws, codes, and standards pertaining to the fire service; and communicate the information.

4.4 Training and Education.
4.4.1 Develop and distribute health and safety information for the education of fire department members, given NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, SOP/Gs, and health and safety policies used by the AHJ, and a means for conveying clear, concise, and correct information to update and train members.

(A) Requisite Knowledge.

SOP/Gs, health and safety policies used by the AHJ; NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*; AHJ codes, standards, and regulations that relate to the fire department occupational safety and health program.

(B) Requisite Skills.

Analyze information from different data sources; interpersonal and organizational interaction; use various means to communicate information.

4.4.2

Implement the training and education of fire department members on the organization’s health and safety procedures and NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, given NFPA 1500, SOP/Gs, and health and safety policies used by the AHJ, so that all emergency and nonemergency functions are evaluated, level of compliance is documented and communicated to the appropriate person(s).

(A) Requisite Knowledge.
(B) Requisite Skills.

Analyze information from different data sources; interpersonal and organizational interaction; use various means to communicate information.

4.4.3

Develop a safety procedure for live fire training exercises, given a list of live training evolutions utilized by the AHJ, instruction plans for live fire training exercises, and NFPA 1403, *Standard on Live Fire Training Evolutions*, so that safety procedures for instructors and students are documented, and the requirements of NFPA 1403, *Standard on Live Fire Training Evolutions*, are met.

(A) Requisite Knowledge.

SOP/Gs and health and safety policies used by the AHJ; live training evolutions used by the AHJ; life-threatening and non-life-threatening occupational injuries and illnesses; requirements of NFPA 1403.

(B) Requisite Skills.

Ability to develop SOP/Gs; use resources for determining code compliance; complete reporting and documentation requirements.
4.5 Accident Prevention.

4.5.1*

Manage a fire department accident prevention program by utilizing engineering controls, administrative policies and procedures, education, protective clothing and protective equipment, given the fire department's risk management plan, accident, occupational injury, and occupational illnesses data, and reports on department functions, so that the program meets the requirements of Section 4.2, the work practices are identified, and recommendations are communicated to the appropriate person(s).

A) Requisite Knowledge.

Understand the necessary components of a fire department accident prevention program; proper use and performance limitations of protective clothing and protective equipment; procedures for developing recommendations based on fire department audits, incident reports, surveys, accident reports, occupational injury reports, inspection reports, and other applicable department information.

(B) Requisite Skills.

Analyze the components necessary to be included in a fire department accident prevention program based on the requirements of Section 4.2. Analyze information from different sources; interact with or interview personnel associated with fire department operations, apparatus, equipment, fire department facilities, and SOP/G's.
4.5.2*

Implement training for safe work practices on emergency and nonemergency operations, given a risk management plan, SOP/Gs, and a training curriculum, so that the training class is delivered and members are given the necessary information to perform their job tasks in accordance with the risk management plan.

(A) Requisite Knowledge.

Procedures for conducting job task analysis based on department SOP, the department’s risk management plan, health and safety policies used by the AHJ, and the technical knowledge necessary to perform various job tasks.

(B) Requisite Skills.

Analyze information from different sources; interact with or interview personnel involved in the training of department members; and understand delivery methods of instructional materials.

4.5.3

Develop an emergency vehicle safety program, given fire department SOP/Gs, applicable traffic laws, and an emergency vehicle operator manual, so that applicable SOP/Gs are communicated to members.

(A) Requisite Knowledge.
Procedures for driving and operating fire apparatus based on department SOP/Gs, health and safety policies used by the AHJ, applicable traffic laws, and NPFA 1451, *Standard on Fire and Emergency Vehicle Operations Training Program.*

(B) Requisite Skills.

Analyze information from different sources; interact with or interview personnel involved in the training of department members; and understand delivery methods of instructional materials.

4.5.4*

Conduct a periodic safety audit, given NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program,* fire department operations, apparatus, equipment, facilities, training and education programs, SOP/Gs, and an audit template, so that work practices and procedures are conducted in compliance with applicable federal, state/provincial, and local laws, codes and standards; and the safety audit report and recommendations are communicated to the appropriate person(s).

(A) Requisite Knowledge.

Work practices and procedures for fire department operations, apparatus, equipment, training, and fire department facilities based on SOP/Gs, NFPA 1500, audit template, and federal, state/provincial, local laws, and codes and standards.

(B) Requisite Skills.
Analyze information from different sources; interact with or interview personnel involved in the training of department members; document information, utilizing an audit template, and develop reports.

4.6 Accident Investigation, Procedures, and Review.

4.6.1

Conduct a safety and health investigation, given an incident or planned event involving an occupational injury, illness, exposure, fatality, near miss, or other potentially hazardous condition involving fire department members, fire department vehicles, apparatus, equipment or facilities, SOP/Gs, health and safety policies, so that the facts and the root cause of the incident are correctly identified, deviations from SOP/Gs established by the AHJ and health and safety policies are noted, recommendations are made for preventing similar losses in the future, and all information gathered in the investigation is documented, reported, and recorded according to policies established by the AHJ.

(A) Requisite Knowledge.

Procedures for conducting, documenting, recording, and reporting a safety and health investigation; SOP/Gs and health and safety policies used by the AHJ; procedures for preserving evidence and documentation; and the technical knowledge pertinent to the incident under investigation, and federal, state/provincial, and local laws.

(B) Requisite Skills.
Analyze information from different data sources; conduct root cause analysis; interact
with or interview personnel associated with the incident; complete safety investigation
documentation; identify cause(s) of injury, death, or property damage; and develop
recommendations to prevent similar losses in the future.

4.6.2

Develop a policy for reporting accident and injury investigations, given an incident or
planned event, applicable documents, techniques, SOP/Gs, and all applicable laws,
regulations, and standards, so that the accident and/or injury is documented,
procedures are reviewed, and all local, state/provincial, and federal requirements are
met, documentation is completed, and recommendations for revision are made.

(A) Requisite Knowledge.

Procedures for developing and reviewing accident and injury reporting and
investigation; SOP/Gs and health and safety policies used by the AHJ; all applicable
federal, state/provincial, and local laws, regulations, and standards.

(B) Requisite Skills.

Analyze information from different data sources; interact with or interview personnel
associated with the incident, often under conditions of personal stress; complete safety
investigation documentation; identify cause(s) of injury, death, or property damage; and
develop recommendations to prevent similar losses in the future.
4.6.3

Establish procedures for a health and safety component of a post-incident analysis, given an incident or planned event, incident information, data, reports or records, SOP/Gs, necessary technical knowledge, and all applicable laws, regulations, and standards, so that risks to personnel are identified and reduced or eliminated at future incidents, and the applicable AHJ SOP/Gs are reviewed and revised as needed.

(A) Requisite Knowledge.

Knowledge of applicable hazards related to the incident, NFPA 1500, Standard on Fire Department Occupational Safety and Health Program;

NFPA 1584, Standard on the Rehabilitation Process for Members During Emergency Operations and Training Exercises; NFPA 1561, Standard on Emergency Services Incident Management, SOP/Gs and health and safety policies used by the AHJ; all applicable federal, state/provincial, and local laws, regulations, and standards.

(B) Requisite Skills.

Recognize hazards at an emergency scene; determine methods for correcting health and safety hazards; analyze information from different data sources; interact with or interview personnel; write SOP/Gs.
Coordinate the development of a corrective action plan, given a team, a list of recommendations arising from the investigation of occupational accidents, injuries, deaths, illnesses, exposures, observation of incident scene activities, and departmental policies and procedures, so that root causes are determined, the plan is documented, and controls are implemented according to departmental policies and procedures.

(A) Requisite Knowledge.

Applicable federal, state, and local laws, standards, and regulations; SOPs and health and safety policies used by the AHJ; life-threatening and non-life-threatening occupational injuries and illnesses; procedures for conducting, documenting, recording, and reporting a safety and health investigation; procedures for preserving evidence and documentation; and the technical knowledge pertinent to the incident(s) under investigation.

(B) Requisite Skills.

Analyze information from different data sources; interact with or interview personnel associated with the incident, often under conditions of personal stress; complete safety investigation documentation; identify cause(s) of injury, death, or property damage; and develop recommendations to prevent similar losses in the future.

4.7 Records Management and Data Analysis.
Manage the collection and analysis of data related to accidents, occupational deaths, injuries, illnesses, and exposures to infectious agents and communicable diseases, given incident-related data, a data collection and storage system, the requirements of Chapter 4 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, so that the data summarizes fire department experience in different categories, comparisons can be made with other fire departments, national trends, and other occupations and industries, and the information can be accessed for future reference and use.

(A) Requisite Knowledge.

Procedures for tabulating and compiling accident and injury data, including statistical applications, national statistical and investigative reports, NFPA 1500, SOP/Gs, and health and safety policies used by the AHJ.

(B) Requisite Skills.

Basic statistical analysis in spreadsheets or other appropriate software; identify cause(s) and trends in injury, death, or property damage; and determine corrections to prevent similar losses in the future.

4.7.2

Verify records are maintained regarding the periodic inspection and service testing of fire apparatus and equipment, inspection and service testing of protective clothing and protective equipment, and fire department facilities, given NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, inspection and service testing
records for fire apparatus, equipment, protective clothing and protective equipment, so that records are secure, accessible, and in a format that can be easily analyzed.

(A) Requisite Knowledge.

Procedures for management of records, NFPA 1500, all applicable federal, state/provincial, and local laws, regulations, and standards.

(B) Requisite Skills.

Records management and organization.

4.7.3

Maintain records of corrective actions taken to mitigate health and safety hazards or unsafe practices, given evidence of corrective actions implemented, so that records of corrective actions are accessible and in a format that is appropriate for analysis.

(A) Requisite Knowledge.

Procedures for management of records.

(B) Requisite Skills.

Records management and organization.
4.7.4

Develop a report on fire department accidents, occupational injuries, illnesses, deaths, and exposures, given the accident and injury data and necessary equipment, so that the report, which may include recommendations, is communicated to the appropriate person(s).

(A) Requisite Knowledge.

Procedures for developing reports and recommendations based on fire department audits, incident reports, surveys, accident reports, injury reports, inspection reports, and other applicable department information.

(B) Requisite Skills.

Analyze information from different sources; interact with or interview personnel associated with fire department operations, apparatus, equipment, fire department facilities, and SOP; basic statistical analysis in spreadsheets or other appropriate software; identify cause(s) and trends in injury, death, or property damage; and develop recommendations to prevent similar losses in the future.

4.8 Apparatus and Equipment.

4.8.1
Recommend safety-related specifications for fire apparatus and fire equipment, given new or existing fire apparatus and fire equipment specifications, information on new fire apparatus and fire equipment technology, and risks identified in the risk management plan, so that the specifications meet the fire department needs identified in the risk management plan, and federal, state/provincial, local laws, and NFPA standards are complied with, and the specifications are documented.

(A) Requisite Knowledge.

Chapter 6 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*; federal, state/provincial, and local laws that relate to fire apparatus specifications; new fire apparatus and fire equipment technology, and current fire apparatus specification procedures.

(B) Requisite Skills.

Ability to develop safety-related fire apparatus and equipment specifications; determine compliance with federal, state/provincial, and local laws that relate to fire apparatus and equipment specifications.

4.8.2

Recommend safety-related specifications for protective clothing and protective equipment, given new or existing protective clothing and protective equipment specifications, new protective clothing and protective equipment technology, and risks identified in the risk management plan, so that the specifications meet the fire department needs identified in the risk management plan, federal, state/provincial, local laws, and NFPA standards are complied with, and the specifications are documented.
(A) Requisite Knowledge.

Chapter 7 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, federal, state/provincial, and local laws that relate to fire equipment specifications; current protective clothing and protective equipment specification procedures; current state of technology in the appropriate areas of protective clothing and protective equipment; procedures, training, equipment, and safety precautions for use of protective clothing and protective equipment; the organization’s risk management plan.

(B) Requisite Skills.

Ability to develop safety-related protective clothing and equipment specifications; determine compliance with federal, state/provincial, and local laws related to protective clothing and protective equipment.

4.8.3

Verify performance testing of fire apparatus and fire equipment is being conducted, given performance testing requirements, applicable provisions of Chapter 6 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, so that a determination can be made for the suitability of continued service.

(A) Requisite Knowledge.
Chapter 6 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, federal, state/provincial, and local laws that relate to performance testing of apparatus and equipment; current apparatus and equipment service testing procedures and results.

**(B) Requisite Skills.**

Ability to verify service testing of apparatus and equipment; determine compliance with federal, state/provincial, and local laws.

4.8.4

Verify the development of an annual evaluation plan for the organization’s in-service fire and emergency vehicles given the organization’s emergency vehicles and current NFPA minimum vehicle safety standards, so that a plan to retire, refurbish, or replace them based on the requirements in NFPA 1911, *Standard for the Inspection, Maintenance, Testing, and Retirement of In-Service Automotive Fire Apparatus*, is developed and implemented.

**(A) Requisite Knowledge.**

(B) Requisite Skills.

Ability to identify safety-related features on fire and emergency vehicles and verify whether they are in compliance with NFPA standards.

4.8.5

Verify the development of an annual evaluation plan for the organization’s in-service fire and emergency vehicles, given the organization’s emergency vehicles and current NFPA minimum vehicle safety standards, so that a plan to retire, refurbish, or replace them based on the recommendations in Annex D of NFPA 1901 and NFPA 1911 is developed and implemented.

(A) Requisite Knowledge.


(B) Requisite Skills.

Ability to identify safety-related features on fire and emergency vehicles and verify whether they are in compliance with NFPA standards.
4.8.6

Verify the development, implementation, and maintenance of a protective clothing and protective equipment program that provides for the selection, care, maintenance, storage, and periodic inspection and evaluation of all protective clothing and equipment; given NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, protective clothing and protective equipment, care, storage, and maintenance resources, SOP/Gs established by the AHJ, and all applicable laws, regulations, and standards, so that a determination can be made for the suitability of continued service.

**(A) Requisite Knowledge.**

Chapter 7 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, and federal, state/provincial, and local laws that relate to protective clothing and equipment programs.

**(B) Requisite Skills.**

Ability to develop a protective clothing and protective equipment program; determine compliance with federal, state/provincial, and local laws.

4.9 Facility Inspection.

4.9.1*

Develop a health and safety facility inspection SOP/G, process, and checklist for a fire department facility, given the requirements of Chapter 9 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, and available resources, so
that the appropriate inspection procedures are developed, and safety and health hazards are noted in accordance with all applicable laws, regulations, and standards.

(A) Requisite Knowledge.

Chapter 9 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, federal, state/provincial, and local laws; current facility inspection procedures; resources for conducting a facility inspection; procedures, equipment, and safety precautions for conducting facility inspections.

(B) Requisite Skills.

Develop SOP/Gs and procedures; acquire resources to initiate and coordinate a facility inspection; use resources for determining code compliance; complete reporting and documentation requirements; and understand and comply with all applicable laws, regulations, and standards.

4.9.2*

Conduct a health and safety inspection for a fire department facility, given the requirements of Chapter 9 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, a facility that requires an inspection, and available resources, so that the appropriate inspection procedures are selected and implemented in accordance with all applicable laws, regulations, and standards, the inspection is conducted safely, all the required reports are completed; and ensure the violations are corrected.

(A) Requisite Knowledge.
4.10 Health Maintenance.

4.10.1

Analyze the fire department health maintenance program, given a fire department health maintenance program and the medical and physical requirements of Chapter 10 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, so that the program includes medical, physical performance, and health and fitness requirements, as well as a health database, infectious control procedures, a fire department physician, and fitness for duty evaluations; and recommendations are made to correct any noted deficiencies.

(A) Requisite Knowledge.

Chapters 10, 11, and 12 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*; AHJ codes, standards, and regulations that relate to the fire department health maintenance program;
medical surveillance, wellness programs, physical fitness, nutrition, and injury and illness rehabilitation programs; resources for conducting a fire department health maintenance program; procedures, equipment, and safety precautions for the fire department health maintenance program.

(B) Requisite Skills.

Analyze and incorporate information from health maintenance programs; interact with or interview personnel associated with health and wellness.

4.10.2

Coordinate the fire department health maintenance program, given a fire department health maintenance program and the medical and physical requirements of Chapter 10 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, so that the program includes medical, physical performance, and health and fitness requirements, as well as a health database, infectious control procedures, a fire department physician, and fitness for duty evaluations; and recommendations are made to correct any noted deficiencies.

(A) Requisite Knowledge.

Chapters 10, 11, and 12 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; AHJ codes, standards, and regulations that relate to the fire department health maintenance program; fire department health maintenance program; medical surveillance, wellness programs, physical fitness, nutrition, and injury and
illness rehabilitation programs; resources for conducting a fire department health maintenance program; procedures, equipment, and safety precautions for the fire department health maintenance program.

(B) Requisite Skills.

Analyze and incorporate information from health maintenance programs; interact with or interview personnel associated with health and wellness.

4.11 Liaison.

4.11.1

Communicate recommendations from the fire department occupational health and safety committee to the appropriate person(s), given SOP/Gs and health and safety policies used by the AHJ, a fire department occupational health and safety committee, and committee recommendations, so that all recommendations are documented and forwarded to the appropriate person(s).

(A) Requisite Knowledge.

SOP/Gs and health and safety policies used by the AHJ; NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; AHJ codes, standards, and regulations that relate to the fire department occupational safety and health committee.

(B) Requisite Skills.

Evaluate recommendations and communicate them in a manner such that recommendations and objectives are met.
4.11.2

Provide information and assistance to personnel for surveying their districts regarding potential health and safety hazards, given a scenario, the fire department’s risk management plan, and SOP/Gs, so that they will be able to identify and report health and safety hazards that could have adverse effects on fire department operations.

(A) Requisite Knowledge.

Procedures for conducting job tasks based on department SOP/Gs, the department’s risk management plan, health and safety policies used by the AHJ, and the technical knowledge necessary to perform various job tasks.

(B) Requisite Skills.

Ability to evaluate and prioritize hazards, utilize critical thinking to analyze the hazard, select the most appropriate control measure, and evaluate its effectiveness in enhancing fire fighter safety.

4.11.3

Develop recommendations for changes in equipment, procedures, and methods based on results of evaluations, given recommendations from the fire department occupational safety and health committee, safety audits, an analysis of injury statistics or other reliable sources of hazardous conditions or injury data, so that the recommendations for
equipment, procedures and methods can be accepted and approved in accordance with the AHJ.

(A) Requisite Knowledge.

Hazard recognition, assessment, controls, and evaluation, health and safety recommendations; use of safety audits; injury statistics.

(B) Requisite Skills.

Analyze and interpret injury statistics, interpersonal skills; and report writing.

4.11.4

Verify medical advice and treatment are available to members of the fire department, given a fire department physician, fire department members, understanding of occupational medicine for the fire service and the IAFF/IAFC Fire Service Joint Labor Management Wellness-Fitness Initiative, so that members receive the necessary information to maximize their health, wellness, and safety.

(A) Requisite Knowledge.

Medical requirements for members as specified in NFPA 1582, Standard on Comprehensive Occupational Medical Program for Fire Departments, and IAFC/IAFF Joint Labor Management Wellness-Fitness Initiative; health hazards associated with fire fighting; and current occupational health, wellness, and safety practices.

(B) Requisite Skills.
Organizational skills, communication skills, and interpersonal skills.

4.11.5*

Provide information and assistance regarding risks that may impact operations, given a scenario, the fire department’s risk management plan, SOP/Gs, so that members can perform their job tasks in a safe and effective manner.

(A) Requisite Knowledge.

Procedures for conducting job tasks based on department SOP/Gs, the department’s risk management plan, health and safety policies used by the AHJ, and the technical knowledge necessary to perform various job tasks.

(B) Requisite Skills.

Ability to evaluate and prioritize hazards, utilize critical thinking to analyze the hazard, select the most appropriate control measure, and evaluate its effectiveness in enhancing fire fighter safety.

4.12 Infection Control,

4.12.1

Assess the fire department’s infection control program, given a copy of the department’s program, incident reports, and access to infection control equipment and facilities, so that the requirements of the Ryan White HIV/AIDS Treatment Extension Act (S.1793) and Part G: the Ryan White Life Threatening Disease List and Reporting Guidelines, 29 CFR 1910.1030, “Occupational Exposure to Bloodborne Pathogens,” and NFPA 1581, Standard on Fire Department Infection Control Program, are met.
(A) Requisite Knowledge.


(B) Requisite Skill.


4.12.2

Function as the fire department infection control officer, if an infection control officer position does not exist in the fire department, given an infection control scenario, so that the objectives of the infection control program as specified in the requirements of Ryan White HIV/AIDS Treatment Extension Act (S.1793) and Part G: the Ryan White Life Threatening Disease List and Reporting Guidelines, 29 CFR 1910.1030, “Occupational Exposure to Bloodborne Pathogens”; and NFPA 1581, Standard on Fire Department Infection Control Program, are met.

(A) Requisite Knowledge.

(B) Requisite Skill.

**Acquire and document infection control procedures; coordination skills necessary to revise program; assess the requirements based on the Ryan White HIV/AIDS Treatment Extension Act (S.1793), Part G: The Ryan White Life Threatening Disease List and Reporting Guidelines, 29 CFR 1910.1030, “Occupational Exposure to Bloodborne Pathogens,” and NFPA 1581; integrate the occupational health and safety aspects of the risk management program into infection control training and education programs, and educate members.**
Chapter 5 Functions of the Incident Safety Officer

5.1 Scope General

5.1.1 The fire department incident safety officer (ISO) shall meet the requirements of Fire Officer Level I specified in NFPA 1021, Standard for Fire Officer Professional Qualifications, and the job performance requirements (JPRs) defined in Sections 5.2 through 5.7.

5.1.2 A fire department ISO shall recuse himself/herself from any investigatory process where a conflict of interest exists.

5.2 Purpose, General Requirements

5.2.1 The purpose of this chapter shall be to specify minimum job performance requirements for personnel performing the role of fire department incident safety officer (ISO).

Perform the role of ISO within an incident command system (ICS) at an incident or planned event, given an incident or planned event, an ICS structure, a command post, a briefing from an incident commander (IC) or outgoing ISO, SOP related to health and safety, an incident action plan (IAP), applicable protective clothing and protective equipment, and communications and information recording equipment, so that the assignment is received and understood; situational information about the incident or planned event is received; incident priorities, goals, and objectives are transferred; action is taken to mitigate any immediate life safety threats; and applicable communication means are employed.

(A) Requisite Knowledge.
Understand accepted safety and health principles, including issues such as the hierarchy of controls, specific technical or regulatory areas pertinent to the response, and the accepted management principles needed to promote safety in the response environment. [1026 : 5.2.1(A)]

(B) Requisite Skills.
Prioritizing tasks, making decisions in an environment with a large number of unknowns, evaluating resource needs, recognizing the need for supplemental technical knowledge, and taking action in a proactive manner to ensure responder safety and health. [1026 : 5.2.1(B)]

5.2.2 Monitor the IAP, conditions, activities, and operations, given an incident or planned event, an IAP, and risk management assessment criteria, so that activities and operations that involve an unacceptable level of risk can be altered, terminated, or suspended to protect members’ health and safety.

(A) Requisite Knowledge.
Comprehensive knowledge of incident hazards, applicable legislation, regulations, codes, and standards, the incident management system (IMS), recognized safety practices, risk management criteria, including what constitutes unacceptable level of risk; and fire department operations, training materials, and SOP/Gs

(B) Requisite Skills.
Ability to apply knowledge of fire behavior and fire dynamics, building construction, department SOP/Gs, training materials, and applicable safety practices in a risk management assessment to determine the most appropriate actions to minimize health and safety risks.

5.2.3

Manage the transfer of ISO duties, given an incident or planned event, an established command structure and ISO, an IAP, an incident safety plan, a current situation status, incident resources, a command post, incident documentation, and communications equipment, so that incident information is exchanged, reports and plans for the subsequent operational period are completed, continuity of authority and situational awareness are maintained, changes in incident or planned event complexity are accounted for, the new ISO is briefed on the incident or planned event, and the new ISO is identified.

(A) Requisite Knowledge.
AHJ's procedures for transfer of duty; information sources; resource accountability and tracking process; use of IMS forms; the role and duties of an ISO within an IMS; organizational policies and procedures for safety; accountability protocols; resource types and deployment methods; documentation methods and requirements; availability, capabilities, and limitations of responders and other resources; communication problems and needs; communications requirements; operational periods for ISO functions; and types of tasks and assignment responsibilities.

(B) Requisite Skills.
Conducting a transfer briefing meeting; acquiring and documenting information and orders from the IC; using reference materials; evaluating incident information; managing communications; completing required ICS and health and safety forms; recognizing the need to expand and/or transfer the safety function in the ICS structure; reviewing, understanding, and conducting a transfer of duty briefing, including the completion of the transfer documents; and communicating in a manner such that information is transferred and objectives are met. [1026: 5.2.2 (B)]

5.2.4

Stop, alter, or suspend operations based on imminent threats posed to fire fighter safety, given an incident or planned event that contains threats to fire fighter safety, an incident management structure, risk management criteria, and applicable SOP/Gs, so that the hazard is identified, notice to suspend operations is communicated, action is taken to protect fire fighter safety, and this information is communicated to the IC.

(A) Requisite Knowledge.
Knowledge of what constitutes imminent hazards at an incident or planned event that could impact fire fighter safety, IMS, radio protocols and transmission procedures, fire behavior/dynamics, hazardous energy, reading smoke, building construction, and departmental SOP/Gs and training materials.

(B) Requisite Skills.
Ability to evaluate hazards; determine the relative degree of risk to members and whether they pose an imminent threat to fire fighter safety; use of department radios and communication abilities.

5.2.5

Monitor and determine the incident scene conditions, given an incident or planned event, so that the ISO can report to the IC on the status of hazards and risks to members.

(A) Requisite Knowledge.
Knowledge of what constitutes hazards at an emergency incident, the IMS, radio protocols and transmission procedures, incident hazards, and departmental SOP/Gs.

**(B)** Requisite Skills.

Ability to evaluate hazards, determine the relative degree of risk to members, prioritize the risks, and communicate this information to the IC.

5.2.6

Monitor the accountability system, given an incident or planned event, an IMS, personal identification devices, radios, and applicable SOP/Gs, so that it can be determined that the accountability system is being utilized as designed, all relevant positions and functions are implemented, and any noted deficiencies are communicated to the IC.

**(A)** Requisite Knowledge.

Knowledge of incident management system, department accountability system positions and protocols, radio protocols and transmission procedures, and departmental SOP/Gs.

**(B)** Requisite Skills.

Ability to recognize inadequacies in the use of the accountability system.

5.2.7

Determine hazardous incident conditions and advise the IC to establish or modify control zones, given an incident, so that the incident control zones are communicated to members and entry into the hazardous area is controlled.

**(A)** Requisite Knowledge.

Comprehensive knowledge of hazardous conditions, operations, departmental SOP/Gs and training materials, control zones protocols, and the IMS.

**(B)** Requisite Skills.

Ability to evaluate the effect of proximity for incident hazards so that risk to members will be limited to emergency responders assigned tasks to mitigate the incident.

5.2.8

Identify motor vehicle incident scene hazards, given an apparatus and temporary traffic control devices, an incident or planned event, so that actions to mitigate the hazards as described in Section 8.7 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, are taken to protect member safety.

**(A)** Requisite Knowledge.

Knowledge of hazards associated with vehicle incidents and apparatus placement, the IMS, departmental SOP/Gs and training materials, state/provincial and local traffic regulations, risk management principles and criteria, and applicable safety principles and practices.

**(B)** Requisite Skills.

Ability to apply knowledge of hazards and regulations to an incident within a risk management framework to protect member safety.

5.2.9

Monitor radio transmissions; given an incident or planned event with radio transmissions, so that communication barriers are identified and the possibility for missed, unclear, or incomplete communications is corrected.

**(A)** Requisite Knowledge.

Knowledge of radio protocols and transmission procedures, the IMS, emergency incident hazards, and departmental SOP/Gs.

**(B)** Requisite Skills.
Ability to recognize missed, unclear, or incomplete communications.

5.2.10*

Identify the incident strategic requirements (e.g., fire, technical rescue, hazmat), the corresponding hazards, the size, complexity and anticipated duration of the incident, including the associated risks, given an incident or planned event, an IMS, and applicable SOP/Gs, so that the ISO can determine the need for assistant ISOs and/or technical specialists and make the recommendations to the IC.

(A) Requisite Knowledge.
Comprehensive knowledge of incident hazards; applicable legislation, regulations, codes, and standards; the IMS; recognized safety practices; risk management criteria, including what constitutes unacceptable level of risk; and fire department operations, training materials, and SOP/Gs.

(B) Requisite Skills.
Ability to recognize the types of hazards that might require additional ISOs or technical specialists, and applicable safety practices.

5.2.11

Determine the hazards associated with the designation of a landing zone and interface with helicopters, given an incident or planned event that requires the use of a helicopter and landing zone, so that the IC can be informed of special requirements and the landing can be executed in a safe manner.

(A) Requisite Knowledge.
Helicopter and landing zone requirements; hazards associated with helicopters and landing zones; safety issues associated with landing zones; and the IMS.

(B) Requisite Skills.
Ability to recognize landing zone locations and hazards.

5.2.12*

Notify the IC of the need for intervention resulting from an occupational exposure to atypical stressful events, given an incident or planned event and an awareness of incidents that can cause incident stress, so that members' psychological health and safety can be protected.

(A) Requisite Knowledge.
Knowledge of incidents that can lead to occupational exposure to atypical stress, the signs and symptoms of occupational exposure to atypical stress, the difference between debriefing and defusing, and support teams and other resources to provide assistance.

(B) Requisite Skills.
Ability to recognize signs and symptoms of occupational exposure to atypical stress; an accepting and empathetic demeanor; and good communication skills.

5.2.13*

Determine hazardous energy sources that can affect responder health and safety, given an incident or planned event, an active IAP with assigned responders, and an opportunity to perform environmental and operational reconnaissance, so that risks to personnel are identified, reduced, or eliminated; hazard information is relayed to IC staff and ancillary agencies responsible for the hazardous energy source; appropriate zones are established and marked; and personnel operating at the scene are briefed on the hazardous energy control zone.

(A) Requisite Knowledge.
Common component assemblies for hazardous energy sources, including but not limited to gas, electrical, water, and pressure vessels; hazardous properties of common utility gases; common electrical distribution grid components and arrangements; and control zone marking schemes as defined by 8.6.2 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program.*

**B. Requisite Skills.**
Critical identification, analysis, and judgment abilities; prioritizing to address hazards on a most critical–first basis; communicating hazard information to personnel via the incident safety plan, IAP, face-to-face, radio, and safety briefings; determining boundaries and markings for control zones; formulating recommendations for IC action; exercising authority to suspend imminent danger operations; and anticipating evolving site conditions that require IAP changes.

5.2.14

Monitor conditions, including weather, fire fighter activities, and work cycle durations, given an incident or planned event, so that the need for rehabilitation can be determined, communicated to the IC, and implemented to ensure fire fighter health and safety.

**A. Requisite Knowledge.**
Comprehensive knowledge of heat and cold assessment criteria, rehabilitation strategies, including NFPA 1584, *Standard on the Rehabilitation Process for Members During Emergency Operations and Training Exercises*; SOP/Gs and training materials; available resources that can be used for rehabilitation, signs and symptoms of cardiac stress, and heat and cold stress.

**B. Requisite Skills.**
Ability to recognize signs of cardiac, heat, and cold stress; set up a rehab area and ensure that members use it as designed.

5.2.2

It shall not be the intent of this chapter to restrict any jurisdiction from exceeding these requirements.

5.3 – General:

5.3.1 –

The job performance requirements shall be accomplished in accordance with the requirements of the authority having jurisdiction; NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*; and NFPA 1561, *Standard on Emergency Services Incident Management System and Command Safety.*

5.3.2* –

It shall not be required that the job performance requirements be mastered in the order they appear.

5.3.2.1 –

The authority having jurisdiction (AHJ) shall establish instructional priority and the training program content to prepare individuals to meet the job performance requirements of this standard.

5.3.3* –

Performance of each requirement of this chapter shall be evaluated by individuals approved by the AHJ. [1026 :1.3.3]

5.3.4* –

The AHJ shall establish a specific qualification process that identifies the steps to prepare a candidate for qualification at the level the candidate will be expected to perform under the auspices of that jurisdiction and to prepare the candidate in a manner consistent and compatible with the National Incident Management System (NIMS). [1026 :1.3.4]
5.3.5
Prior to being certified as fire department incident safety officer, the candidate shall meet the general knowledge and skill requirements and the job performance requirements of this chapter necessary to function safely at the kind and type(s) of incident or planned event at which the candidate would operate.

5.3.6
The job performance requirements in this chapter are consistent with the Safety Officer Core Competencies published as part of the NIMS.

5.3.7
Wherever in this chapter the terms rules, regulations, procedures, supplies, apparatus, and equipment are referred to, it is implied that they are those of the AHJ.

5.3 - General JPRs of the Incident Safety Officer.

5.4.1
Perform safety officer (SO) duties as prescribed in NFPA 1026, Standard for Incident Management Personnel Professional Qualifications, Chapter 5.

(A) - Requisite Knowledge.
NFPA 1026, Standard for Incident Management Personnel Professional Qualifications, Chapter 5.

(B) - Requisite Skills.
Ability to identify, analyze, and apply applicable NFPA 1026, Standard for Incident Management Personnel Professional Qualifications, functions during fire suppression activities.

5.4.2
Monitor the incident action plan, conditions, activities, and operations, given an actual or simulated incident, an incident action plan, and risk management assessment criteria, so that activities and operations that involve an unacceptable level of risk can be altered, terminated, or suspended to protect members' health and safety.

(A) - Requisite Knowledge.
Comprehensive knowledge of emergency incident hazards, applicable legislation, regulations, codes, and standards, the incident management system, recognized safety practices, risk management criteria, including what constitutes unacceptable level of risk; and fire department operations, training materials, and SOP/Gs.

(B) - Requisite Skills.
Ability to apply knowledge of fire behavior and fire dynamics, building construction, department SOP/Gs, training materials, and applicable safety practices in a risk management assessment to determine the most appropriate actions to minimize health and safety risks.

5.3.1
Exercise the authority to stop, alter, or suspend activities that are judged by the ISO as posing an imminent threat to fire fighter safety, given an emergency incident or scenario that contains potentially imminent threats to fire fighter safety, an incident management structure, risk management criteria, and applicable SOP/Gs, so that fire fighter safety is protected.

(A) - Requisite Knowledge.
Knowledge of what constitutes imminent hazards at an emergency incident that could impact fire fighter safety, incident management system, radio protocols and transmission procedures, fire behavior/dynamics, hazardous energy hazards, reading smoke, building construction, and departmental SOP/Gs and training materials.

(B) - Requisite Skills:
Ability to evaluate hazards, determine their relative degree of risk to members and if they pose an imminent threat to fire fighter safety, use of department radios and communication abilities.

5.3.1

Inform the incident commander of any actions taken to correct imminent hazards at the emergency scene, given an emergency incident or scenario with potentially imminent hazards, the IMS structure, and applicable SOP/Gs, so that the IC can use this information to revise and coordinate tactical operations, protect fire fighter safety, and diminish the potential for injury.

(A) - Requisite Knowledge:
Knowledge of incident management system, radio protocols and transmission procedures, fire behavior/dynamics, hazardous energy hazards, reading smoke, building construction, and departmental SOP/Gs.

(B) - Requisite Skills:
Ability to locate the IC and communicate the specific actions taken; the reasons for those actions, including potential hazards and degree of risk; and any reasonable alternative strategies or solutions that are consistent with the IAP but would not jeopardize member safety.

5.3.2

Monitor and evaluate the incident scene, given an actual or simulated emergency incident, so that the ISO can report to the incident commander on the status of conditions, hazards, and risks to members.

(A) - Requisite Knowledge:
Knowledge of what constitutes hazards at an emergency incident, incident management system, radio protocols and transmission procedures, emergency incident hazards and departmental SOP/Gs.

(B) - Requisite Skills:
Ability to evaluate hazards, determine their relative degree of risk to members, prioritize those risks, and communicate this information to the incident commander.

5.3.2

Monitor the accountability system, given an actual or simulated emergency incident, an IMS system, personal identification devices, radios, and applicable SOP/Gs, so that it can be determined that the accountability system is being utilized as designed, all relevant positions and functions are implemented, and any noted deficiencies are communicated to the IC.

(A) - Requisite Knowledge:
Knowledge of incident management system, the department accountability system positions and protocols, radio protocols and transmission procedures, and departmental SOP/Gs.

(B) - Requisite Skills:
Ability to recognize inadequacies in the use of the accountability system.

5.3.2
Evaluate emergency incident hazardous conditions and recommend the establishment of control zones and no-entry zones to the incident commander, given an actual or simulated emergency incident, so that entry into hazardous areas is controlled and that these control zones are communicated to members.

(A) Requisite Knowledge.
Comprehensive knowledge of hazardous conditions, emergency operations, departmental SOP/Gs and training materials, departmental control zones protocols, and the incident management system.

(B) Requisite Skills.
Ability to evaluate the effect of proximity for incident hazards so that risk to members will be limited to emergency responders assigned tasks to mitigate the incident.

5.3.2

Evaluate motor vehicle incident scene traffic and apparatus placement hazards, given an actual or simulated emergency incident, so that appropriate actions to mitigate these hazards as described in Section 8.7 of NFPA 1500 - Standard on Fire Department Occupational Safety and Health Program, are taken to protect member safety.

(A) Requisite Knowledge.
Knowledge of hazards associated with vehicle incidents and apparatus placement, incident management system, departmental SOP/Gs and training materials, state, provincial and local traffic regulations, risk management principles and criteria, applicable safety principles and practices.

(B) Requisite Skills.
Ability to apply knowledge of hazards and regulations to an emergency incident within a risk management framework to protect member’s safety.

5.3.2

Monitor radio transmissions; given an actual or simulated emergency incident that includes live or recorded radio transmissions; so that transmission barriers are identified and the potential for missed, unclear, or incomplete communications are corrected.

(A) Requisite Knowledge.
Knowledge of radio protocols and transmission procedures, the incident management system, emergency incident hazards and departmental SOP/Gs

(B) Requisite Skills.
Ability to recognize missed, unclear or incomplete communications.

5.3.3

Evaluate the incident strategic requirements (fire, technical rescue, HazMat etc.) their corresponding hazards, the size, complexity and anticipated duration of the incident including their associated risks; given an emergency incident or scenario, IMS, applicable SOP/Gs; so that the ISO can evaluate the need for assistant incident safety officers and/or technical specialists and make these recommendations to the incident commander.

(A) Requisite Knowledge.
Comprehensive knowledge of emergency incident hazards; applicable legislation; regulations; codes and standards; the incident management system; recognized safety practices; risk management criteria, including what constitutes unacceptable level of risk; and fire department operations, training materials, and SOP/Gs.

(B) Requisite Skills.
Ability to recognize the types of hazards that might require additional ISOs or technical specialists, and applicable safety practices.
5.3.2

Survey and evaluate the hazards associated with the designation of a landing zone and interface with helicopters, given an actual or simulated emergency incident that might require the use of a helicopter and landing zone, so that the incident commander can be informed of special requirements and the landing can be executed in a safe manner.

(A) Requisite Knowledge:
Helicopter and landing zone requirements, hazards associated with helicopters and landing zones, safety issues associated with landing zones, and the incident management system.

(B) Requisite Skills:
Ability to recognize potential landing zone locations and hazards.

5.3.3

Notify the incident commander of the potential need for intervention resulting from an occupational exposure to atypical stressful events incident stress, given an actual or simulated emergency incident and an awareness of potential incidents that can cause critical incident stress, so that members’ psychological health and safety can be protected.

(A) Requisite Knowledge:
Knowledge of incidents that can lead to occupational exposure to atypical stress, the signs and symptoms of occupational exposure to atypical stress, the difference between debriefing and defusing, and support teams and other resources to provide assistance.

(B) Requisite Skills:
Ability to recognize signs and symptoms of occupational exposure to atypical stress, an accepting and empathetic demeanor, and good communication skills.

5.3.4

Assess hazardous energy sources that can affect responder health and safety, given an actual or simulated incident scene, an active IAP with assigned responders, and an opportunity to perform environmental and operational reconnaissance, so that risks to personnel are identified, reduced, or eliminated; hazard information is relayed to Incident Command staff and ancillary agencies responsible for the hazardous energy source; appropriate zones are established and marked; and personnel operating at the scene are briefed on the hazardous energy control zone.

(A) Requisite Knowledge:
Common component assemblies for hazardous energy sources, including but not limited to gas, electrical, water, and pressure vessels; hazardous properties of common utility gases; common electrical distribution grid components and arrangements; and control zone marking schemes as defined by NFPA 1500 – Standard on Fire Department Occupational Safety and Health Program. 8.6.2.

(B) Requisite Skills:
Critical identification, analysis, and judgment abilities; prioritizing to address hazards on a most critical–first basis; communicating hazard information to personnel via the incident safety plan, IAP, face-to-face, radio, and safety briefings; determining boundaries and markings for control zones; formulating recommendations for Incident Command action; exercising authority to suspend imminent danger operations; and anticipating evolving site conditions that require IAP changes.
Monitor conditions including weather (temperature and humidity); fire fighter activities; and work cycle durations, given an actual or simulated incident, so that the need for rehabilitation can be determined, communicated to the IC, and implemented to ensure fire fighter’s health and safety.

(A) - Requisite Knowledge.
Comprehensive knowledge of heat and cold assessment criteria; rehabilitation strategies, including NFPA 1584, Standard on the Rehabilitation Process for Members During Emergency Operations and Training Exercises, SOP/Gs and training materials; available resources that can be used for rehabilitation; signs and symptoms of cardiac stress, and heat and cold stress.

(B) - Requisite Skills.
Ability to recognize signs of cardiac, heat, and cold stress; ability to set up a rehab area and ensure that members used it as designed.

5.3 - Fire Suppression Operations.

5.3.1 -

In addition to the requirements of this section, perform the requirements as prescribed in NFPA 1521, Standard for Fire Department Safety Officer, Section 6.1.

(A) - Requisite Knowledge.
NFPA 1521, Standard for Fire Department Safety Officer, Section 6.1, requirements.

(B) - Requisite Skills.
Ability to identify, analyze, and apply applicable NFPA 1521, Standard for Fire Department Safety Officer, Section 6.1, general performance functions.

5.3.1 -

Evaluate incident environmental and operational factors and determine the need to assign rapid intervention teams and increase RIC capability, given an incident or planned event that includes one or more IDLH elements, an IAP, responders engaged in tactical operations, and a pre-assigned rapid intervention team, so that judgment is offered to the IC for the establishment of RIC in accordance with NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and NFPA 1561, Standard on Emergency Services Incident Management System; RIC capabilities are increased congruent to the environment and operational exposure present; and the AHJ’s incident standard operating guidelines and SOP/Gs are followed.

Determine incident environmental and operational factors and confirm the establishment of rapid intervention crew (RIC) and evaluate the need to increase RIC capability, given an incident or planned event that includes one or more immediately dangerous to life and health (IDLH) elements, responders engaged in tactical operations, a pre-assigned RIC, and an IAP, so that a recommendation is offered to the IC.

(A) - Requisite Knowledge.

RIC deployment requirements; AHJ SOP/Gs; and, directives for RIC establishment and use.
Requisite Skills.
- Interpret applicable regulations, guidelines, procedures, and consensus standards for implementation at actual incidents; auditing conditions to ensure policies are being followed; and formulating recommendations for Incident Command incident action.

Requisite Knowledge.
- Structural/compartmental fire behavior, building construction features and associated hazards, and hazardous energy properties and components.

Requisite Skills.
- Ability to interpret fire suppression hazards and operations and communicate through face-to-face and radio methods.

5.3.2
- Communicate fire behavior, building access/egress issues, collapse, and hazardous energy issues to established RICs, given an incident or planned event, so that RIC team leaders are aware of the observations and concerns of the ISO.

Requisite Knowledge.
- Structural/compartmental fire behavior, building construction features and associated hazards, and hazardous energy properties and components.

Requisite Skills.
- Ability to interpret fire suppression hazards and operations and communicate through face-to-face and radio methods.

5.3.3
- Identify and analyze potential building collapse hazards, given a building fire scenario incident, building collapse scenario incident, reconnaissance opportunity, and established AHJ pre-incident building plans, so that building collapse hazards can be communicated to the incident commander (IC), incident management staff, and tactical-level management units; judgment is offered to the IC for the establishment of control zone(s); personnel are removed from collapse zone dangers; and appropriate adjustments are made to the Incident Action Plan (IAP) by the IC to improve member safety.

Requisite Knowledge.
- Building construction classifications and associated hazards; structural fire collapse indicators; building fire spread potential; fire effects on building materials, loads, and forces; structural conditions that warrant halting, stopping, continuing, or resuming operations; and procedures for determining collapse zone distances and potential hazards.

Requisite Skills.
- Critical identification, analysis, and judgment abilities; applying AHJ building preplan systems at actual incidents; interpreting collapse hazards; communicating findings; formulating recommendations for incident incident command; exercising authority to suspend immediate danger operations and anticipating evolving site conditions that require IAP changes.
5.3.4: Determine flashover and hostile fire event potential at building fires, given visible exterior smoke and fire conditions an incident, so that risks are identified and information can be communicated to the incident commander and tactical-level management units, and adjustments are made to the IAP strategy and tactics to improve safety.

**Requisite Knowledge.**
Compartmentalized fire behavior theory, flashover and other hostile fire event indicators (backdraft, smoke explosion, and rapid fire spread), ventilation flow path, fire-load (fuel) characteristics, effects of fire-fighting efforts on fire behavior.

**Requisite Skills.**
Critical identification, analysis, and judgment abilities; reading smoke (volume, flow velocity, density, and color); and communicating fire behavior concerns through face-to-face and radio methods.

5.3.5: Determine fire growth and blow-up potential, given wildland and cultivated vegetation fires, so that information can be communicated to the incident commander and tactical-level management components and adjustments made to the IAP to improve member safety.

**Requisite Knowledge.**
Wildland and vegetation fire behavior and wildland fire phenomena such as blowups and flaring.

**Requisite Skills.**
Critical identification, analysis, and judgment abilities; interpreting fuel, topography, flame length, and weather effects on wildland and vegetation fires; and communicating fire behavior concerns through face-to-face and radio methods.

5.3.6: Evaluate the suitability of building entry and egress options at building fires, given various building fire scenarios incidents, so that entry and egress options are optimized through communication with the IC and tactical-level management components.

**Requisite Knowledge.**
Building construction access and egress challenges; AHJ building pre-fire systems; fire-fighting equipment capabilities, and AHJ fire-fighting resource capabilities.

**Requisite Skills.**
Critical identification, analysis and judgment abilities; and communicating access and egress concerns through face-to-face and radio methods.

5.4 Technical Rescue Operations.

5.4.1 In addition to the requirements of this section, the Fire Department Safety Officer shall perform the requirements as prescribed in NFPA 1521, _Standard for Fire Department Safety Officer_, Section 6.1.

(A) Requisite Knowledge:
NFPA 1521, _Standard for Fire Department Safety Officer_, Section 6.1 requirements.

(B) Requisite Skills:
Ability to identify, analyze, and apply applicable NFPA 1521, _Standard For Fire Department Safety Officer_, Section 6.1, general performance functions.

5.4.1* Classify technical rescue operations and determine the need for a technician-trained ISO or Assistant Safety Officer, given a hazardous materials incident or drill, so that the IC can allocate resources that fulfill the SO role in accordance with CFR 1910.146; NFPA 1006, _Standard for Rescue Technician Professional Qualifications_; and AHJ SOP/Gs for technical rescue operations.

Determine the need for a rescue technician-trained ISO or assistant ISO, given a technical rescue incident, CFR 1910.146; NFPA 1006, _Standard for Technical Rescuer Professional Qualifications_; and AHJ SOP/Gs for technical rescue operations, so that the IC can appoint an assistant ISO or a technical rescuer.

(A) Requisite Knowledge:
Technical rescue incident types as defined in NFPA 1006, _Standard for Rescue Technician Professional Qualifications_, _Standard for Technical Rescuer Professional Qualifications_, and AHJ SOP/Gs for technical rescue operations.

(B) Requisite Skills:
Identifying technical rescue incident resource needs and forecasting stabilization strategies.

5.4.2 Develop Prepare a safety plan that identifies corrective or preventive actions, given a technical rescue incident or drill scenario, an IAP that includes situation and resource status information, an incident safety analysis form (ICS form 215A or its equivalent), weather condition information, special technical data (such as Safety Data Sheets, safety data sheets, and topographical information, blueprints, and building drawings), and predetermined incident information, so that safety data are obtained, an incident safety plan is developed with coordinating documentation, elements of the plan are incorporated in the IAP, changes in incident safety conditions are noted and reported, judgment is offered to the IC for the establishment of control zone(s) and exclusion zone(s), safety and appropriate PPE elements are met, and assistant safety officers ISOs are appointed as necessary.

(A) Requisite Knowledge:
Risk management principles; technical rescue operations strategies and tactics; hazard mitigation and countermeasure strategies; NIMS IAP and planning processes; NIMS documentation system; NFPA1951, _Standard on Protective Ensembles for Technical Rescue Incidents_; 29 CFR 1910.146; and AHJ SOP/Gs for hazardous materials operations.

(B) Requisite Skills:
Critical identification, analysis, and judgment abilities; communicating safety issues within the command structure; and reading/editing technical documentation.

5.4.3*

Prepare Deliver a safety briefing for a technical rescue incident response members, given a technical rescue incident or scenario, so that critical information such as expected hazards, PPE requirements, established zones, emergency procedures, air monitoring, medical surveillance, and chain-of-command elements are communicated.

(A) Requisite Knowledge:
OSHA 29 CFR 1910.146 requirements for a site safety and health plan; NIMS forms and ICS processing criteria; general technical rescue operations safety strategies; and AHJ technical rescue SOP/Gs.

(B) Requisite Skills:
Ability to communicate critical messages in written and oral formats.

5.5 Hazardous Materials Operations.

5.5.1*

In addition to the requirements of this section, the Fire Department Safety Officer shall perform the requirements as prescribed in NFPA 1521, Standard For Fire Department Safety Officer, Section 6.1.

(A) Requisite Knowledge:
NFPA 1521, Standard for Fire Department Safety Officer, Section 6.1, requirements.

(B) Requisite Skills:
Ability to identify, analyze, and apply applicable NFPA 1521, Standard for Fire Department Safety Officer, Section 6.1, general performance functions.

5.5.2*

Classify hazardous materials operations and determine the need for a technician-trained ISO or Assistant Safety Officer, given a hazardous materials incident or drill, so that the IC can allocate resources that fulfill the SO role in accordance with CFR 1910.120; NFPA 472, Standard for Professional Competence of Responders to Hazardous Materials Incidents; and AHJ SOP/Gs.

Determine the need for a hazardous materials technician-trained ISO or assistant ISO, given a hazardous materials incident, 29 CFR 1910.120; NFPA 472, Standard for Professional Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents; and AHJ SOP/Gs for hazardous materials operations, so that the IC can appoint an assistant ISO or a hazardous materials technician.

(A) Requisite Knowledge:

(B) Requisite Skills:
Identifying hazardous materials incident resource needs and needs; forecasting stabilization strategies.
Develop a safety plan that identifies corrective or preventive actions, given a hazmat incident or drill scenario. IAP that includes situation and resource status information, an incident safety analysis form (ICS form 215A or its equivalent), weather condition information, special technical data (such as Material Safety Data Sheets, safety data sheets, and topographical information, blueprints, and building drawings), and predetermined incident information, so that safety data are obtained, an incident safety plan is developed with coordinating documentation, elements of the plan are incorporated in the IAP, changes in incident safety conditions are noted and reported, judgment is offered to the IC for the establishment of control zone(s) and exclusion zone(s), safety and PPE elements of 29 CFR 1910.120 are met, and assistant safety officers ISOs are appointed as necessary.

(A) Requisite Knowledge.
Risk management principles; hazardous materials operations strategies and tactics; hazard mitigation and countermeasure strategies; NIMS IAP and planning processes; NIMS documentation system; and AHJ SOPs/Gs for hazardous materials operations.

(B) Requisite Skills.
Critical identification, analysis, and judgment abilities; communicating safety issues within the command structure; and reading/editing technical documentation.

5.5.3*

Prepare a safety briefing for hazardous materials incident response members, given a hazmat incident or scenario, so that critical information such as expected hazards, PPE requirements, established zones, decontamination procedures, emergency procedures, air monitoring, medical surveillance, and chain-of-command elements are communicated.

(A) Requisite Knowledge.
OSHA 29 CFR 1910.120 requirements for a site safety and health plan; NIMS forms and ICS processing criteria; general hazmat operations safety strategies; and AHJ hazmat SOPs/Gs.

(B) Requisite Skills.
Ability to communicate critical messages in written and oral formats.

5.5.4*

Develop a control zone schematic, inclusive of no-entry zones, hot zones, hazard reduction zones, support zones, and travel pathways, given a hazmat incident or scenario, so that responders can arrange cones and marking tape in accordance with the developed schematic.

Identify that hazardous materials incident control zones have been established and communicated to personnel on the scene, given a hazardous materials incident and SOP/Gs, so that responders can identify marked control zones, which must be inclusive of no-entry zones, hot zones, hazard reduction zones, support zones, and corridors.

(A) Requisite Knowledge.
Common zoning strategies for hazardous materials operations, methods of marking zones, and AHJ SOP/Gs for zone communication; NFPA 472; Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents; and other applicable NFPA documents.

(B) Requisite Skills.
Ability to adapt zoning strategies to individual incident challenges such as topography, weather, and resource variants.

5.6 Accident Investigations and Review.

5.6.1
In addition to the requirements of this section, the Fire Department Safety Officer shall perform the requirements as prescribed in NFPA Standard For Fire Department Safety Officer, Section 6.1.

(A) Requisite Knowledge.
NFPA 1521, Standard for Fire Department Safety Officer, Section 6.1, requirements.

(B) Requisite Skills.
Ability to identify, analyze, and apply applicable NFPA 1521, Standard for Fire Department Safety Officer, Section 6.1, general performance functions.

5.6.1.*
Initiate Conduct a safety and health investigative process, given an accident, incident, planned event, or near miss given an accident or planned event, using applicable documents and techniques, so that the chain of evidence is started and maintained, critical incident data elements are collected, potential witnesses are identified, applicable SOP/Gs are identified for review, and gathered information is documented and prepared for the HSO or investigative continuance as established by the AHJ's policies and SOP/Gs.

(A) Requisite Knowledge.
Procedures for conducting, documenting, recording, and reporting a safety investigation, SOP/Gs and health and safety investigative policies used by the AHJ; procedures for preserving evidence and documentation; and the technical knowledge pertinent to the incident under investigation.

(B) Requisite Skills.
Analyzing information from different data sources; identifying equipment and materials that might be considered evidence; interacting with or interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining corrections to prevent similar future losses in the future.

5.6.3.*
Recognize severe injuries, accidents, mishaps, and other potentially harmful events, given an incident or planned event, department SOP/Gs, so that a determination can be made to disqualify the SO from the investigative responsibility if a potential conflict exists.

(A) Requisite Knowledge.
SOP/Gs and health and safety investigative policies used by the AHJ; local, regional, and national notifications required for LODDs, risk-sharing, and/or worker’s compensation reporting criteria; historical perspective of firefighter exposures and related chronic health issues.

(B) Requisite Skills.
Classifying the severity of injuries from a recovery and cost view, interacting with personnel associated with the incident, often under conditions of personal stress; compiling personal observations and actions and documenting them in a chronological manner.

5.7 Post-Incident Analysis (PIA).

5.7.1.*
In addition to the requirements of this section, the Fire Department Safety Officer shall perform the requirements as prescribed in NFPA 1521, Standard for Fire Department Safety Officer, Section 6.1.

(A) Requisite Knowledge.
NFPA 1521, Standard for Fire Department Safety Officer, Section 6.1, requirements.
Requisite Skills.
Ability to identify, analyze, and apply applicable NFPA 1521, Standard for Fire Department Safety Officer, Section 6.1, general performance functions.

5.7.1*

Prepare a written post-incident analysis (PIA) from the ISO perspective, given a witnessed incident or planned event witnessed incident, exercise, or planned event, so that safety and health issues, best safety practices, deviations from SOP/Gs established by the AHJ, and recommendations for future events are documented.

(A) Requisite Knowledge.
NFPA 1500, Standard on Fire Department Occupational Safety and Health Program; PIA reporting criteria; and AHJ SOP/Gs for PIAs.

(B) Requisite Skills.
Transferring incident observations into field notes and documenting field notes into a formal PIA structure.

5.7.2*

Communicate Report: observations, concerns, and recommendations, given a witnessed incident or planned event and PIA group setting, so that safety and health issues, best safety practices, deviations from SOP/Gs established by the AHJ, and recommendations for future events are voiced in a positive manner communicated to the AHJ.

(A) Requisite Knowledge.
Group dynamics in problem solving.

(B) Requisite Skills.
Active listening skills; and composing and relaying constructive information in a group setting.

Supplemental Information

File Name

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Committee Statement
Committee Statement: The committee has reorganized the document by rewriting the existing chapter 6 and renumbering it as chapter 5. Related Annex material has been renumbered to reflect this change.

Response Message:

Public Comment No. 5-NFPA 1521-2012 [New Section after 6.3.1]
Public Comment No. 6-NFPA 1521-2012 [Section No. 6.4.1]
Public Comment No. 7-NFPA 1521-2012 [New Section after 6.4.2]
Public Comment No. 8-NFPA 1521-2012 [Section No. 6.5.2 [Excluding any Sub-Sections]]
Public Comment No. 9-NFPA 1521-2012 [Section No. 6.5.4 [Excluding any Sub-Sections]]
Public Comment No. 10-NFPA 1521-2012 [Section No. 6.5.4 [Excluding any Sub-Sections]]
Public Comment No. 12-NFPA 1521-2012 [Section No. 6.6.1]
Public Comment No. 13-NFPA 1521-2012 [Section No. 6.6.2 [Excluding any Sub-Sections]]
Public Comment No. 14-NFPA 1521-2012 [Section No. 6.7.5 [Excluding any Sub-Sections]]
Public Comment No. 15-NFPA 1521-2012 [Section No. 6.8.3 [Excluding any Sub-Sections]]
Public Comment No. 17-NFPA 1521-2012 [Section No. 6.9.2 [Excluding any Sub-Sections]]

Ballot Results

✔ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
0 Abstention

Not Returned
Blake, Paul
Bogucki, Sandy
Finkelman, Michael L.
Garrett, Christopher A.
Laton, Michael A.
Prezant, David J.
Rueda, Mario D.
Schwartz, Andrew G.
Stewart, Donald F.
Wann, Teresa
Zagaris, Kim D.

Affirmative All
Bennett, Lawrence T.
Bernzweig, David T.
Brinkley, James E.
Childress, Dennis R.
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<th>Authors</th>
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<td>Cuff, Jr., Thomas J.</td>
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Chapter 5 Incident Safety Officer

5.1 General.

5.1.1 The fire department incident safety officer (ISO) shall meet the requirements of Fire Officer Level I specified in NFPA 1021, *Standard for Fire Officer Professional Qualifications*, and the job performance requirements (JPRs) defined in Sections 5.2 through 5.7.

5.1.2* A fire department ISO shall recuse himself/herself from any investigatory process where a conflict of interest exists.

5.2 General Requirements.

5.2.1 Perform the role of ISO within an incident command system (ICS) at an incident or planned event, given an incident or planned event, an ICS structure, a command post, a briefing from an incident commander (IC) or outgoing ISO, SOP related to health and safety, an incident action plan (IAP), applicable protective clothing and protective equipment, and communications and information recording equipment, so that the assignment is received and understood; situational information about the incident or planned event is received; incident priorities, goals, and objectives are transferred; action is taken to mitigate any immediate life safety threats; and applicable communication means are employed.
(A) Requisite Knowledge.

Understand accepted safety and health principles, including issues such as the hierarchy of controls, specific technical or regulatory areas pertinent to the response, and the accepted management principles needed to promote safety in the response environment. [1026:5.2.1 (A)]

(B) Requisite Skills.

Prioritizing tasks, making decisions in an environment with a large number of unknowns, evaluating resource needs, recognizing the need for supplemental technical knowledge, and taking action in a proactive manner to ensure responder safety and health. [1026: 5.2.1(B)]

5.2.2

Monitor the IAP, conditions, activities, and operations, given an incident or planned event, an IAP, and risk management assessment criteria, so that activities and operations that involve an unacceptable level of risk can be altered, terminated, or suspended to protect members' health and safety.

(A) Requisite Knowledge.

Comprehensive knowledge of incident hazards, applicable legislation, regulations, codes, and standards, the incident management system (IMS), recognized safety practices, risk management criteria, including what constitutes unacceptable level of risk; and fire department operations, training materials, and SOP/Gs.

(B) Requisite Skills.
Ability to apply knowledge of fire behavior and fire dynamics, building construction, department SOP/Gs, training materials, and applicable safety practices in a risk management assessment to determine the most appropriate actions to minimize health and safety risks.

5.2.3

Manage the transfer of ISO duties, given an incident or planned event, an established command structure and ISO, an IAP, an incident safety plan, a current situation status, incident resources, a command post, incident documentation, and communications equipment, so that incident information is exchanged, reports and plans for the subsequent operational period are completed, continuity of authority and situational awareness are maintained, changes in incident or planned event complexity are accounted for, the new ISO is briefed on the incident or planned event, and the new ISO is identified.

(A) Requisite Knowledge.

AHJ's procedures for transfer of duty; information sources; resource accountability and tracking process; use of IMS forms; the role and duties of an ISO within an IMS; organizational policies and procedures for safety; accountability protocols; resource types and deployment methods; documentation methods and requirements; availability, capabilities, and limitations of responders and other resources; communication problems and needs; communications requirements; operational periods for ISO functions; and types of tasks and assignment responsibilities.

(B) Requisite Skills.
Conducting a transfer briefing meeting; acquiring and documenting information and orders from the IC; using reference materials; evaluating incident information; managing communications; completing required ICS and health and safety forms; recognizing the need to expand and/or transfer the safety function in the ICS structure; reviewing, understanding, and conducting a transfer of duty briefing, including the completion of the transfer documents; and communicating in a manner such that information is transferred and objectives are met. [1026: 5.2.2(B)]

5.2.4

Stop, alter, or suspend operations based on imminent threats posed to fire fighter safety, given an incident or planned event that contains threats to fire fighter safety, an incident management structure, risk management criteria, and applicable SOP/Gs, so that the hazard is identified, notice to suspend operations is communicated, action is taken to protect fire fighter safety, and this information is communicated to the IC..

(A) Requisite Knowledge Knowledge of what constitutes imminent hazards at an incident or planned event that could impact fire fighter safety, IMS, radio protocols and transmission procedures, fire behavior/dynamics, hazardous energy, reading smoke, building construction, and departmental SOP/Gs and training materials.

(B) Requisite Skills.

Ability to evaluate hazards; determine the relative degree of risk to members and whether they pose an imminent threat to fire fighter safety; use of department radios and communication abilities.
5.2.5
Monitor and determine the incident scene conditions, given an incident or planned event, so that the ISO can report to the IC on the status of hazards and risks to members.

(A) **Requisite Knowledge.** Knowledge of what constitutes hazards at an emergency incident, the IMS, radio protocols and transmission procedures, incident hazards, and departmental SOP/Gs.

(B) **Requisite Skills.**

Ability to evaluate hazards, determine the relative degree of risk to members, prioritize the risks, and communicate this information to the IC.

5.2.6

Monitor the accountability system, given an incident or planned event, an IMS, personal identification devices, radios, and applicable SOP/Gs, so that it can be determined that the accountability system is being utilized as designed, all relevant positions and functions are implemented, and any noted deficiencies are communicated to the IC.

(A) **Requisite Knowledge.** Knowledge of incident management system, department accountability system positions and protocols, radio protocols and transmission procedures, and departmental SOP/Gs.

(B) **Requisite Skills.**

Ability to recognize inadequacies in the use of the accountability system.

5.2.7*

Determine hazardous incident conditions and advise the IC to establish or modify
control zones, given an incident, so that the incident control zones are communicated to members and entry into the hazardous area is controlled.

(A) Requisite Knowledge.

Comprehensive knowledge of hazardous conditions, operations, departmental SOP/Gs and training materials, control zones protocols, and the IMS.

(B) Requisite Skills.

Ability to evaluate the effect of proximity for incident hazards so that risk to members will be limited to emergency responders assigned tasks to mitigate the incident.

5.2.8

Identify motor vehicle incident scene hazards, given an apparatus and temporary traffic control devices, an incident or planned event, so that actions to mitigate the hazards as described in Section 8.7 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, are taken to protect member safety.

(A) Requisite Knowledge.

Knowledge of hazards associated with vehicle incidents and apparatus placement, the IMS, departmental SOP/Gs and training materials, state/provincial and local traffic regulations, risk management principles and criteria, and applicable safety principles and practices.
(B) Requisite Skills.
Ability to apply knowledge of hazards and regulations to an incident within a risk management framework to protect member safety.

5.2.9

Monitor radio transmissions; given an incident or planned event with radio transmissions, so that communication barriers are identified and the possibility for missed, unclear, or incomplete communications is corrected.

**(A) Requisite Knowledge.**

Knowledge of radio protocols and transmission procedures, the IMS, emergency incident hazards, and departmental SOP/Gs

**(B) Requisite Skills.**

Ability to recognize missed, unclear, or incomplete communications.

5.2.10*

Identify the incident strategic requirements (e.g., fire, technical rescue, hazmat), the corresponding hazards, the size, complexity and anticipated duration of the incident, including the associated risks, given an incident or planned event, an IMS, and applicable SOP/Gs, so that the ISO can determine the need for assistant ISOs and/or technical specialists and make the recommendations to the IC.

**(A) Requisite Knowledge.**

Comprehensive knowledge of incident hazards; applicable legislation, regulations, codes, and standards; the IMS; recognized safety practices; risk management criteria, including what constitutes unacceptable level of risk; and fire department operations,
training materials, and SOP/Gs.

(B) Requisite Skills.

Ability to recognize the types of hazards that might require additional ISOs or technical specialists, and applicable safety practices.

5.2.11

Determine the hazards associated with the designation of a landing zone and interface with helicopters, given an incident or planned event that requires the use of a helicopter and landing zone, so that the IC can be informed of special requirements and the landing can be executed in a safe manner.

(A) Requisite Knowledge.

Helicopter and landing zone requirements; hazards associated with helicopters and landing zones; safety issues associated with landing zones; and the IMS.

(B) Requisite Skills.

Ability to recognize potential landing zone locations and hazards.

5.2.12*

Notify the IC of the need for intervention resulting from an occupational exposure to atypical stressful events, given an incident or planned event and an awareness of incidents that can cause incident stress, so that members’ psychological health and safety can be protected.
(A) Requisite Knowledge.
Knowledge of incidents that can lead to occupational exposure to atypical stress, the signs and symptoms of occupational exposure to atypical stress, the difference between debriefing and defusing, and support teams and other resources to provide assistance.

(B) Requisite Skills.

Ability to recognize signs and symptoms of occupational exposure to atypical stress; an accepting and empathetic demeanor; and good communication skills.

5.2.13*

Determine hazardous energy sources that can affect responder health and safety, given an incident or planned event, an active IAP with assigned responders, and an opportunity to perform environmental and operational reconnaissance, so that risks to personnel are identified, reduced, or eliminated; hazard information is relayed to IC staff and ancillary agencies responsible for the hazardous energy source; appropriate zones are established and marked; and personnel operating at the scene are briefed on the hazardous energy control zone.

(A) Requisite Knowledge.

Common component assemblies for hazardous energy sources, including but not limited to gas, electrical, water, and pressure vessels; hazardous properties of common utility gases; common electrical distribution grid components and arrangements; and control zone marking schemes as defined by 8.6.2 of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program.

(B) Requisite Skills.

Critical identification, analysis, and judgment abilities; prioritizing to address hazards on
a most critical–first basis; communicating hazard information to personnel via the incident safety plan, IAP, face-to-face, radio, and safety briefings; determining boundaries and markings for control zones; formulating recommendations for IC action; exercising authority to suspend imminent danger operations; and anticipating evolving site conditions that require IAP changes.

5.2.14

Monitor conditions, including weather, fire fighter activities, and work cycle durations, given an incident or planned event, so that the need for rehabilitation can be determined, communicated to the IC, and implemented to ensure fire fighter health and safety.

(A) Requisite Knowledge.

Comprehensive knowledge of heat and cold assessment criteria, rehabilitation strategies, including NFPA 1584, *Standard on the Rehabilitation Process for Members During Emergency Operations and Training Exercises*, SOP/Gs and training materials; available resources that can be used for rehabilitation, signs and symptoms of cardiac stress, and heat and cold stress.

(B) Requisite Skills.

Ability to recognize signs of cardiac, heat, and cold stress; set up a rehab area and ensure that members use it as designed.

5.3 Fire Suppression Operations.

5.3.1*
Determine incident environmental and operational factors and confirm the establishment of rapid intervention crew (RIC) and evaluate the need to increase RIC capability, given an incident or planned event that includes one or more immediately dangerous to life and health (IDLH) elements, responders engaged in tactical operations, a pre-assigned RIC, and an IAP, so that a recommendation is offered to the IC.

(A) Requisite Knowledge.


(B) Requisite Skills.

Interpret applicable regulations, guidelines, procedures, and consensus standards for implementation at incidents; audit conditions to ensure policies are being followed; and formulate recommendations for incident command action.

Comment [b6]: SL: "ensure" okay here? Yes its ok.
Communicate fire behavior, building access/egress issues, collapse, and hazardous energy issues to established RICs, given an incident or planned event, so that RIC team leaders are aware of the observations and concerns of the ISO.

(A) Requisite Knowledge.

Structural/compartmentalized fire behavior, building construction features and associated hazards, and hazardous energy properties and components.

(B) Requisite Skills.

Ability to interpret fire suppression hazards and operations and communicate through face-to-face and radio methods.

5.3.3*

Identify and estimate building/structural collapse hazards, given a building fire incident, a building collapse incident, reconnaissance opportunity, and established AHJ pre-incident building plan information, so that the identified collapse hazard can be communicated to the IC and tactical-level management units; judgment is offered to the IC for the establishment of control zone(s); personnel are removed from collapse zone dangers; and appropriate adjustments are made to the IAP by the IC to improve member safety.

(A) Requisite Knowledge.

Building construction classifications and associated hazards; structural fire collapse indicators; building fire spread; fire effects on building materials, loads, and forces; structural conditions that warrant stopping, altering, or suspending incident or planned event operations; procedures for managing unsafe acts or operations and procedures
for notifying command of stopped, altered, or suspended operations; methods for determining collapse zone distances; and AHJ pre-incident target building hazards.

(B) Requisite Skills.

Critical identification, analysis, and judgment abilities; applying AHJ building fire preplan systems at actual incidents; interpreting collapse hazards; communicating hazard information to personnel via the incident safety plan, IAP, face-to-face, radio, and safety briefings; determining boundaries and markings for control zones; formulating recommendations for incident command action; exercising authority to suspend imminent danger operations; and anticipating evolving site conditions that require IAP changes.

5.3.4*

Determine flashover and hostile fire event conditions at building fires, given an incident, so that risks are identified and communicated to the incident commander and tactical-level management units, and adjustments are made to strategy and tactics to improve safety.

(A) Requisite Knowledge.

Compartmentalized fire behavior theory, flashover and other hostile fire incident indicators, ventilation flow path, fire-load (fuel) characteristics, effects of fire-fighting efforts on fire behavior.
'B) Requisite Skills.'
Critical identification, analysis, and judgment abilities; reading smoke (volume, velocity, density, and color); and communicating fire behavior concerns through face-to-face and radio methods.

5.3.5*

Determine fire growth and blow up, given wildland and cultivated vegetation fires, so that information can be communicated to the IC and tactical-level management components, and adjustments made to the IAP to improve member safety.

(A) **Requisite Knowledge.**

Wildland and vegetation fire behavior and wildland fire phenomena such as blow ups and flaring.

(B) **Requisite Skills.**

Critical identification, analysis, and judgment abilities; interpreting fuel, topography, flame length, and weather effects on wildland and vegetation fires; and communicating fire behavior concerns through face-to-face and radio methods.

5.3.6

Determine the suitability of building entry and egress options at building fires, given various building fire incidents, so that entry and egress options are optimized through communication with the IC and tactical-level management components.

(A) **Requisite Knowledge.**

Building construction access and egress challenges; AHJ building pre-fire systems; firefighting equipment capabilities, and AHJ fire-fighting resource capabilities.
(B) Requisite Skills.

Critical identification, analysis and judgment abilities; and communicating access and egress concerns through face-to-face and radio methods.

5.4 Technical Rescue Operations.

5.4.1

Determine the need for a rescue technician--trained ISO or assistant ISO, given a technical rescue incident, CFR 1910.146; NFPA 1006, Standard for Technical Rescuer Professional Qualifications, and AHJ SOP/Gs for technical rescue operations, so that the IC can appoint an assistant ISO or a technical rescuer.

(A) Requisite Knowledge.

Technical rescue incident types as defined in NFPA 1006, Standard for Technical Rescuer Professional Qualifications, and AHJ SOP/Gs for technical rescue operations.

(B) Requisite Skills.

Identifying technical rescue incident resource needs, and forecasting stabilization strategies.

5.4.2*

Prepare a safety plan that identifies corrective or preventive actions, given a technical rescue incident, an IAP that includes situation and resource status information, an incident safety analysis form (ICS form 215a or its equivalent), weather condition information, special technical data (such as safety data sheets and topographical information, blueprints, and building drawings), and predetermined incident information, so that safety data are obtained, an incident safety plan is developed with coordinating...
documentation, elements of the plan are incorporated in the IAP, changes in incident safety conditions are noted and reported, judgment is offered to the IC for the establishment of control zone(s) and exclusion zone(s), safety and appropriate PPE elements are met, and assistant ISOs are appointed as necessary.

(A) Requisite Knowledge.
Risk management principles; technical rescue operations strategies and tactics; hazard mitigation and countermeasure strategies; NIMS IAP and planning processes; NIMS documentation system; NFPA1951, Standard on Protective Ensembles for Technical Rescue Incidents; 29 CFR 1910.146; and AHJ SOP/Gs for hazardous materials operations.

(B) Requisite Skills.
Critical identification, analysis, and judgment abilities; communicating safety issues within the command structure; and reading/editing technical documentation.

5.4.3*
Deliver a safety briefing for technical rescue incident response members, given a technical rescue incident, so that critical information such as expected hazards, PPE requirements, established zones, emergency procedures, air monitoring, medical surveillance, and chain-of-command elements are communicated.

(A) Requisite Knowledge.
OSHA 29 CFR 1910.146 requirements for a site safety and health plan; NIMS forms and ICS processing criteria; general technical rescue operations safety strategies; and AHJ technical rescue SOP/Gs.
(B) Requisite Skills.

Ability to communicate critical messages in written and oral formats.

5.5 Hazardous Materials Operations.

5.5.1*

Determine the need for a hazardous materials technician-trained ISO or assistant ISO, given a hazardous materials incident, 29 CFR 1910.120; NFPA 472, Standard for Competency for Responders to Hazardous Materials/Weapons of Mass Destruction Incidents; and AHJ SOP/Gs for hazardous materials operations, so that the IC can appoint an assistant ISO or a hazardous materials technician.

(A) Requisite Knowledge.


(B) Requisite Skills.

Identifying hazardous materials incident resources needed; forecasting incident stabilization strategies and tactics.

5.5.2

Prepare a safety plan that identifies corrective or preventive actions, given a hazmat incident, IAP that includes situation and resource status information, an incident safety analysis form (ICS form 215A or its equivalent), weather condition information, special
technical data (such as safety data sheets and topographical information, blueprints, and building drawings), and predetermined incident information, so that safety data are obtained, an incident safety plan is developed with coordinating documentation, elements of the plan are incorporated in the IAP, changes in incident safety conditions are noted and reported, judgment is offered to the IC for the establishment of control zone(s) and exclusion zone(s), safety and PPE elements of 29 CFR 1910.120 are met, and assistant ISOs are appointed as necessary.

(A) **Requisite Knowledge.**

Risk management principles; hazardous materials operations strategies and tactics; hazard mitigation and countermeasure strategies; NIMS IAP and planning processes; NIMS documentation system; and AHJ SOP/Gs for hazardous materials operations.

(B) **Requisite Skills.**

Critical identification, analysis, and judgment abilities; communicating safety issues within the command structure; and reading/editing technical documentation.

5.5.3*

Deliver a safety briefing for hazardous materials incident response members, given a hazmat incident or scenario, so that critical information such as expected hazards, PPE requirements, established zones, decontamination procedures, emergency procedures, air monitoring, medical surveillance, and chain-of-command elements are communicated.

(A) **Requisite Knowledge.**

OSHA 29 CFR 1910.120 requirements for a site safety and health plan; NIMS forms
and ICS processing criteria; general hazmat operations safety strategies; and AHJ hazmat SOPs/Gs.

**(B) Requisite Skills.**

Ability to communicate critical messages in written and oral formats

5.5.4* Identify that hazardous materials incident control zones have been established and communicated to personnel on the scene, given a hazardous materials incident and SOP/Gs, so that responders can identify marked control zones, which must be inclusive of no-entry zones, hot zones, hazard reduction zone, support zones, and corridors.

**(A) Requisite Knowledge.**


**(B) Requisite Skills.**

Ability to adapt zoning strategies to individual incident challenges such as topography, weather, and resource variants.

5.6 Accident Investigations and Review.

5.6.1* Conduct a safety and health investigative process, given an incident or planned event, using applicable documents and techniques, so that the chain of evidence is started and
maintained, critical incident data elements are collected, witnesses are identified, applicable SOP/Gs are identified for review, and gathered information is documented and prepared for the HSO or investigative continuance as established by AHJ policies and SOP/Gs.

(A) Requisite Knowledge.
Procedures for conducting, documenting, recording, and reporting a safety investigation, SOP/Gs and health and safety investigative policies used by the AHJ; procedures for preserving evidence and documentation; and the technical knowledge pertinent to the incident under investigation.

(B) Requisite Skills.
Analyzing information from different data sources; identifying equipment and materials that might be considered evidence; interacting with or interviewing personnel associated with the incident, often under conditions of personal stress; completing safety investigation documentation; identifying cause(s) of injury, death, or property damage; and determining corrections to prevent similar losses in the future.

5.7 Post-Incident Analysis (PIA).

5.7.1
Prepare a written post-incident analysis (PIA) from the ISO perspective, given a witnessed incident, exercise, or planned event, so that safety and health issues, best safety practices, deviations from SOP/Gs established by the AHJ, and recommendations for future events are documented.
(A) **Requisite Knowledge.**

NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*; PIA reporting criteria; and AHJ SOP/Gs for PIAs.

(B) **Requisite Skills.**

Transferring incident observations into field notes and documenting field notes into a formal PIA structure.

5.7.2*

Report observations, concerns, and recommendations, given a witnessed incident or planned event and PIA group setting, so that safety and health issues, best safety practices, deviations from SOP/Gs established by the AHJ, and recommendations for future events are communicated to the AHJ.

(A) **Requisite Knowledge.**

Group dynamics in problem solving.

(B) **Requisite Skills.**

Active listening skills; and composing and relaying constructive information in a group setting.
These Annex adjustments have been numbered as Ch6 so they can be matched with existing text, but after changes have been incorporated, entire chapter will become Chapter 5.

From old Chapter 6, delete:

A.6.3.2
A.6.3.3
A.6.3.4
A.6.3.6
A.6.4.2
A.6.4.8 (This has been deleted as the committee believes it is addressed in other parts of the document.)

From old Chapter 6, minor editorial changes received minor editorial changes from other SRs:

A.6.2.7
A.6.4.10
A.A.6.4.12
A.6.4.13
A.6.5.2
A.6.5.3
A.6.5.4
A.6.5.4(C)
A.6.6.2
A.6.6.4
A.6.7.2
A.6.7.4
A.6.7.5
A.6.8.2
A.6.8.3 (old A.6.8.3 will be moved to new A.5.1.2 by SR-61)
A.6.9.2
A.6.9.3
Second Revision No. 37-NFPA 1521-2013 [Section No. A.3.3.45.1]

A.3.3.47.1 Health and Safety Officer (HSO).

This individual can also be the incident safety officer or that role can be assigned to another individual as a separate function.

The health and safety officer (HSO) position can be staffed by an individual who is appointed by the fire chief and meets the qualifications of this position as determined by this standard. For this standard, the term officer does not reference rank. Examples of an officer include a fire department member, certified safety professional (CSP), an industrial hygienist, or an occupational safety and health specialist. It is important that the individual has the requisite knowledge and requisite skills to function effectively in this position. If qualified, this individual can also be the incident safety officer (ISO), or that role can be assigned to another individual as a separate function. (See Chapter 6.)

Submitter Information Verification

Submitter Full Name: [Not Specified]
Organization: [Not Specified]
Street Address: [Not Specified]
City:
State:
Zip:
Submittal Date: Mon Jan 14 12:01:41 EST 2013

Committee Statement

Committee Statement: The committee has added this text in order to provide the end user with further clarification of the associated requirement within the document.

Response Message:

Ballot Results

✔ This item has passed ballot

- 32 Eligible Voters
- 11 Not Returned
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Tamme, Susan
Terryn, Fred C.
The health and safety officer HSO should be able to develop, implement, and manage a risk management plan into an organization’s operation, especially a fire department, and should be able to direct the risk management process to enable an organization to control or reduce the frequency and severity of the risks associated with fire department emergency and nonemergency operations.

According to Angle, *Occupational Safety and Health in the Emergency Services*, the health and safety officer HSO should meet the following criteria:

1. Have the knowledge and ability to determine the effectiveness of the risk management plan by reviewing injury and exposure statistics, participating in post-incident analyses (PIAs), and developing SOP/Gs with training.
2. Be able to examine current injury rates and severities and compare them to the rates prior to the program implementation using the goals and objectives developed as benchmarks.
3. Be able to measure the change in knowledge, behavior, and performance of personnel.
4. Have the ability to analyze changes in the physical environment and measure the response of personnel to policy changes.

This information is necessary for health and safety officers HSOs to monitor and revise the risk management plan. Two methods of evaluation should be used: process evaluation and outcome evaluation.

The health and safety officer HSO should have the ability to compile integrate the department’s SOP/Gs, training notes, program directives, and polices into the activities of the command and general staff, including accountability, entry control, use of rapid intervention teams (RICs), and department procedures, apparatus placement, ventilation criteria, and rehabilitation.

The health and safety officer HSO should understand different kinds of operations, including single-jurisdiction/single-agency response, single-jurisdiction/multiagency response, and multi-jurisdiction/multiagency response; be able to implement an IMS at any emergency, and be able to use common terminology and integrated communications. The health and safety officer HSO should be able to include all aspects of an IMS, especially the concept of a manageable span of control in the risk management plan.

Submitter Information Verification
Committee Statement

Committee Statement: These are editorial changes.
Response Message:

Ballot Results

☑️ This item has passed ballot

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Terryn, Fred C.
A.5.4.6 —

The health and safety officer should be able to develop strategies for controlling risks by risk identification through local experience, trends, safety audits, and injury data. The health and safety officer should then be able to evaluate the frequency and severities of the risks identified and implement control measures in three broad categories: risk avoidance, risk reduction, or risk transfer. Finally, the health and safety officer should have the ability to monitor risk management programs.

Integrating risk management into training programs through the development of a comprehensive set of SOP/Gs, training notes, and/or other administrative elements that provide direction (or administrative controls) to manage those risks is an essential responsibility of the health and safety officer.

Developing safety procedures and policies that are necessary to meet some of the goals and objectives defined in the safety program is another responsibility of the health and safety officer. After development, approval, and implementation, the safety and health procedures and policies should be reviewed for effectiveness and updated as necessary as outlined in Angle, *Occupational Safety and Health in the Emergency Services*.

The USFA publication titled *A Guide to Developing Effective Standard Operation Procedures for Fire and EMS Department* is an excellent resource for the development of SOP/Gs.

A.4.2 —

The health and safety officer HSO should be able to develop strategies for controlling risks by risk identification through local experience, trends, safety audits, and injury data. The health and safety officer HSO should then be able to evaluate the frequency and severities of the risks identified and implement control measures in three broad categories: risk avoidance, risk reduction, or risk transfer. Finally, the health and safety officer HSO should have the ability to monitor risk management programs.

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Developing safety procedures and policies that are necessary to meet some of the goals and objectives defined in the safety program is another responsibility of the health and safety officer HSO. After development, approval, and implementation, the safety and health procedures and policies should be reviewed for effectiveness and updated as necessary as outlined in Angle, *Occupational Safety and Health in the Emergency Services*.

The USFA publication titled *A Guide to Developing Effective Standard Operation Procedures for Fire and EMS Department* is an excellent resource for the development of SOP/Gs.
Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address: [ Not Specified ]
City:
State:
Zip:
Submittal Date: Thu Jan 10 19:07:32 EST 2013

Committee Statement

Committee Statement: This annex item was duplicated accidentally and also had editorial changes.
Response Message:

Ballot Results

✔ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
   0 Affirmative with Comments
   0 Negative with Comments
   0 Abstention

Not Returned
Blake, Paul
Bogucki, Sandy
Finkelman, Michael L.
Garrett, Christopher A.
Laton, Michael A.
Prezant, David J.
Rueda, Mario D.
Schwartz, Andrew G.
Stewart, Donald F.
Wann, Teresa
Zagaris, Kim D.

Affirmative All
Bennett, Lawrence T.
Bernzweig, David T.
Brinkley, James E.
Childress, Dennis R.
Cuff, Jr., Thomas J.
Harms, Todd A.
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Kerwood, Scott D.
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Lopes, Tamara DiAnda
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Metheny, Jarett
Neamy, Robert D.
Pietzsch, Ryan
Raynis, Stephen
Samo, Daniel G.
Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terryn, Fred C.
Second Revision No. 45-NFPA 1521-2013 [ Section No. A.5.5.2 ]

Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address:
City:
State:
Zip:
Submittal Date: Tue May 14 15:21:22 EDT 2013

Committee Statement

Committee Statement: Editorial changes
Response Message:

Ballot Results

✅ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
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Pietzsch, Ryan
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Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terryn, Fred C.
Instruction methods, media/means, and materials will vary according to the potential hazards and risks associated with the operation as identified in the risk management plan. SOP/Gs, training notes, videos, and so forth, may might suffice in some areas. The goal is to ensure that all members possess the requisite knowledge and skills to perform the required tasks in a safe and effective manner.

Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address:
City:
State:
Zip:
Submittal Date: Tue May 14 15:22:19 EDT 2013

Committee Statement

Committee Statement: Editorial changes
Response Message:

Ballot Results

✔ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
  0 Affirmative with Comments
  0 Negative with Comments
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Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terryn, Fred C.
Second Revision No. 33-NFPA 1521-2013 [ Section No. A.5.7.4 ]

A.4.5.4
A survey or audit of operations, procedures, equipment, and facilities requires a standard against which to determine compliance with applicable standards and departmental procedures. At a minimum, NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, should be used to determine an acceptable level of compliance.

A periodic safety audit or survey of fire department operations, apparatus, equipment, facilities, training and education programs, and SOP/Gs requires a standard against which to determine compliance with applicable federal, state/provincial, and local laws, codes, and standards. At a minimum, NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, should be used to determine an acceptable level of compliance. The NFPA 1500 Worksheet can be used as an audit template to evaluate the effectiveness of the department’s accident prevention program. This worksheet was developed to provide a template for fire departments that are implementing an occupational safety and health program or that are evaluating the current status of their occupational safety and health program.

An internal audit should be conducted at least annually and an external audit should be conducted every three years, as required by Chapter 4 of NFPA 1500.

Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address: 
City: 
State: 
Zip: 
Submittal Date: Mon Jan 14 11:45:55 EST 2013

Committee Statement

Committee Statement: The committee believes this text provides the end user with further clarification and direction.

Response Message:

Ballot Results

✓ This item has passed ballot
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Blake, Paul  
Bogucki, Sandy  
Finkelman, Michael L.  
Garrett, Christopher A.  
Laton, Michael A.  
Prezant, David J.  
Rueda, Mario D.  
Schwartz, Andrew G.  
Stewart, Donald F.  
Wann, Teresa  
Zagaris, Kim D.

**Affirmative All**

Bennett, Lawrence T.  
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Raynis, Stephen  
Samo, Daniel G.  
Smith, Denise L.  
Stittleburg, Philip C.  
Tamme, Susan  
Terryn, Fred C.
Hazard identification and control are methods to reduce accidents, injuries, and loss. Ultimately, accidents are investigated to determine both immediate and basic causes. Once those causes have been identified, controls can be put in place to help prevent future occurrences.

Committee Statement

Committee Statement: Editorial changes
Response Message:

Ballot Results

✓ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
0 Abstention

Not Returned
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Tamme, Susan
Terryn, Fred C.
A.5.2.7

Figure A.6.4.6 5.2.7 shows the concept of control zones. The hot zone is the area presenting the greatest risks to members and will often be classified as an immediately dangerous to life or health (IDLH) atmosphere.

The warm zone is a limited-access area for members either directly aiding or indirectly supporting operations in the hot zone. Significant risk of human injury (respiratory, exposures, etc.) can still exist in the warm zone.

The cold zone establishes the public exclusion, or clean, zone. There are minimal risks for human injury and exposure in a cold zone.

Any control zone can include a no-entry zone. Examples of no-entry zones are holes in floors, explosive devices, and crime scenes.

Where possible, control zones should be identified with colored hazard tape, signage, cones, flashing beacons, fences, or other appropriate means. However, because of the nature or location of the incident, available resources, or other considerations, it might not always be possible or practical to mark the control zones.

Where colored tape is used to mark control zones, it is recommended that the following tape colors be used:

(1) No-entry zone: Red/white chevron
(2) Hot zone: Red
(3) Warm zone: Yellow
(4) Cold zone: Green

Figure A.5.2.7 Example of Control Zones.
Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address:
City:
State:
Zip:
Submittal Date: Mon May 20 12:07:23 EDT 2013

Committee Statement
Committee Statement: Changes are editorial in nature, and with addition of 5.1.2 the committee added an annex item to go along with it
Response Message:

Ballot Results
✓ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
0 Abstention

Not Returned
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Terryn, Fred C.
Numerous firefighter fatality investigative reports list "communication failure" as a contributing factor to the incident. While the failure of equipment (hardware) has been cited, most of the factors have to do with human communication failure. These communication failures can be typically classified as the following:

1. Lack of communication
2. Missed, fractured, or incomplete communication
3. Undisciplined communication, that is, the lack of a communication priority system

The SO must actively listen to radio messages and "spot" communication failures. When failures are discovered, the SO should evaluate the potential that the communications failure has for the safety of members and make an appropriate intervention.

Radio procedures should be monitored and followed to ensure the ability to transmit a Personnel Accountability Report (PAR), or other critical communication if required. For example, if a message is getting "walked on" or stamped, preventing transmission, this information needs to be communicated to the IC.

Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address:
City:
State:
Zip:
Submittal Date: Mon May 20 12:10:02 EDT 2013

Committee Statement

Committee Statement: This has been deleted as the committee believes it is addressed in other parts of the document.
Response Message:

Ballot Results

✓ This item has passed ballot
32 Eligible Voters
11 Not Returned
21 Affirmative All
 0 Affirmative with Comments
 0 Negative with Comments
 0 Abstention

Not Returned
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Pietzsch, Ryan
Raynis, Stephen
Samo, Daniel G.
Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terryn, Fred C.
Types of incidents that might require assistant incident safety officers ISOs and/or technical specialists include but are not limited to high-rise fires, hazardous materials incidents, and special operations.

Assistant incident safety officers ISOs should be considered where the size of the incident might require more than one ISO (e.g., A side and C side), there are multiple functions (e.g., high-rise fire requiring an ISO to oversee evacuation or ventilation), or there are complex incidents (e.g., watch for partial collapse in specific areas).

Many departments have a number of means to access behavioral health services. In some cases, the incident commander IC might need to be relieved of dealing with member stress and another means of activating this service considered.

The intention of this requirement is that the ISO check to see that the incident commander IC has established a rapid intervention team. In cases where this has not happened, the incident safety officer ISO should inform the incident commander IC of the need.

Submitter Information Verification

Submitter Full Name: [Not Specified]
Organization: [Not Specified]
Street Address: [Not Specified]
City: [Not Specified]
State: [Not Specified]
Zip: [Not Specified]
Submittal Date: Mon May 20 12:11:04 EDT 2013

Committee Statement

Committee Statement: These changes were editorial in nature.
Response Message:

Ballot Results

✓ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
0 Abstention
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Blake, Paul
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Finkelman, Michael L.
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Wann, Teresa
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Pietzsch, Ryan
Raynis, Stephen
Samo, Daniel G.
Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terry, Fred C.
A.5.3.2 —
Where the rapid intervention team requirement has been met, the SO should meet with the rapid intervention team leader and share information and observations such as fire conditions, building construction, access and egress, hazardous energy, and other pertinent hazards.

Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address: 
City: 
State: 
Zip: 
Submittal Date: Wed Jan 09 19:49:56 EST 2013

Committee Statement

Committee Statement: ISO JPR TG Proposal
Response Message:
Public Comment No. 24-NFPA 1521-2012 [Section No. A.6.5.2(C)]

Ballot Results

✔ This item has passed ballot
32 Eligible Voters
11 Not Returned
21 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
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**Affirmative All**

Bennett, Lawrence T.
Bernzweig, David T.
Brinkley, James E.
Childress, Dennis R.
Cuff, Jr., Thomas J.
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Hillerbrand, Thomas
Kerwood, Scott D.
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Pietzsch, Ryan
Raynis, Stephen
Samo, Daniel G.
Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terryn, Fred C.
A.5.3.3
The ability of the IS to evaluate structural fires and/or building collapse situations and offer judgment on integrity and initial and further collapse concerns cannot be overemphasized. To accomplish this, the IS should pursue initial and ongoing education in the following areas:

(1) Building loads and forces, structural elements, and structural assemblies
(2) Building construction types (classic and emerging)
(3) Building material strengths, and weaknesses and the effects of fire and heat
(4) Fire spread potential through different building types
(5) Historical building collapse factors from investigative reports
(6) Analytical approaches to predicting building collapse at structural fires
(7) Building collapse classifications and the associated hazards with each type

Additionally, the IS must have a working knowledge of local building pre-fire plans and target hazard buildings. On-site building familiarization tours and discussions with building engineering officials are invaluable educational experiences that can help the IS better understand collapse potentials before an actual incident.

These educational pursuits must be accompanied with practice through scenario-based testing and/or actual supervised on-scene application at building fires.

A.5.3.4
The IS should monitor fire and smoke conditions and make a judgment about fire growth potential, the likelihood of flashover and a hostile fire event, and the progress of firefighting efforts. To achieve this ability, the IS should pursue education in the following areas:

(1) Modern compartmentalized fire behavior theory
(2) Hostile fire event warnings, including flashover
(3) Fire load (fuel) characteristics
(4) Temperature and heat release rate influences on fire growth
(5) Impact of ventilation (intake and exhaust) on fire spread, including wind-fed effects on buildings fires
(6) Reading smoke skills: the ability to interpret smoke volume, flow (pressure), density, and color
(7) Evaluation of fire-fighting efforts (fire flow application and ventilation)
(8) Technical reports and investigations that detail fire behavior concerns

These educational pursuits must be accompanied with practice through scenario-based testing using actual fire ground video footage of previous incidents.
Committee Statement

Committee Statement: Changes are editorial in nature

Response Message:

Ballot Results

✔ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All

0 Affirmative with Comments
0 Negative with Comments
0 Abstention

Not Returned
Blake, Paul
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</table>
Second Revision No. 25-NFPA 1521-2013 [ Section No. A.6.5.4(C) ]

A.5.3.5
The intent of this JPR is for ISOs who are assigned to National Incident Management System (NIMS) Types 4 and Type 5 incidents. ISOs at NIMS Types wildland and cultivated field fires within the AHJ. ISOs at Type 1, 2, and 3 wildland incidents require more-in-depth and documented-study qualification and specialized study.

Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address:
City:
State:
Zip:
Submittal Date: Wed Jan 09 18:34:01 EST 2013

Committee Statement

Committee Statement: Editorial in nature.
Response Message:

Ballot Results

✔ This item has passed ballot
32 Eligible Voters
11 Not Returned
21 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
0 Abstention

Not Returned
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Finkelman, Michael L.
Garrett, Christopher A.
Laton, Michael A.
Prezant, David J.
Rueda, Mario D.
Schwartz, Andrew G.
Stewart, Donald F.
Wann, Teresa

http://submittals.nfpa.org/TerraViewWeb/ContentFetcher?commentParams=\%28\%28CommentLoader\%29\%29\%28Comment\%29\%28Submit\%29\%28Submittal\%29\%28...
A.5.4.1

Some functions are performed best by individuals with specific expertise, particularly in highly technical areas. The designated incident safety officer ISO can utilize members with specific expertise in the technical specialist or assistant incident safety officer ISO role. In those such cases, the incident safety officer ISO can address overhead safety functions, while the technical specialist or assistant incident safety officer ISO addresses can address safety functions for those with specific special operations expertise.

Technical rescue incidents require an incident safety officer for the following:

1. Potential risks to members needed
2. Substantial number of members to control an incident
3. Duration of the incident

Submitter Information Verification

Submitter Full Name: [ Not Specified ]
Organization: [ Not Specified ]
Street Address: 
City: 
State: 
Zip: 
Submittal Date: Wed Jan 09 17:27:04 EST 2013

Committee Statement

Committee Statement: Editorial in nature and for clarification purposes.
Response Message:

Ballot Results

✔ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
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Raynis, Stephen
Samo, Daniel G.
Smith, Denise L.
Stittleburg, Philip C.
Tamme, Susan
Terry, Fred C.
A.5.4.3
Confined-space incidents require an incident safety plan and a pre-entry safety briefing for all members operating at the incident [29 CFR 1910.146(b)(4)]. It is advisable that all special operations incidents utilize a similar approach. Where a technical specialist or assistant incident safety officer (ISO) is utilized, the incident safety officer should utilize his or her input to help develop the plan and briefing.

The incident safety plan should include the following:

1. Safety and health risks that might be encountered for each member
2. Member training requirements for each assignment
3. PPE required for each member assignment
4. Medical surveillance requirements
5. Frequency and type of monitoring of air, personnel, and environmental factors
6. Decontamination procedures
7. Member emergency and rapid intervention procedures
8. Chain of command and communication plans
9. Overview of the incident action plan

A.5.5.1
Fire Department responses to hazardous materials incidents are classified by the level of intervention and the resource capability of the responders. Classifications include the following:

1. First-Responder level
2. Operations level
3. Technician level

Due to the knowledge and expertise required at a technician-level hazardous materials incident, the incident safety officer needs to have an understanding of these operations. This can be achieved by being trained to the hazardous materials technician level of NFPA 472, Standard for Professional Competence of Responders to Hazardous Materials / Weapons of Mass Destruction Incidents. In cases where the designated SO does not possess the technician-level training, appointing a technician-level trained assistant safety officer (ASO-HM) or technical specialist with the necessary training will help satisfy the safety needs of the technician-level members.

Title 29 CFR 1910.120 requires the incident commander to designate a “safety officer, who is knowledgeable in the operations being implemented at the emergency response site.” This has been interpreted to apply to hazardous materials emergency incidents and confined-space rescue incidents. The appointment of a technical specialist or an ASO-HM can meet this requirement where the incident safety officer does not possess the knowledge, training, or experience to handle such incidents.

Hazardous materials incidents require an incident safety officer (ISO) for the following:
A.5.5.3

Title 29 CFR 1910.120 requires that a site safety and health plan (incident safety plan) is developed at hazardous materials incidents (technician-entry type incidents). All incident responders are required to receive a safety briefing pre-entry. Where technical specialists are utilized, the incident safety officer (ISO) should utilize their expertise to help develop the plan. The incident safety plan should include the following:

1. Safety and health risks that might be encountered for each member
2. Member training requirements for each assignment
3. PPE required for each member assignment
4. Medical surveillance requirements
5. Frequency and type of monitoring of air, personnel, and environmental factors
6. Decontamination procedures
7. Member Emergency and rapid intervention procedures
8. Chain-of-command and communication plans
9. Overview of the incident action plan

To prepare an incident safety plan and briefing, the SO should collect information from several sources, including the following:

1. Planning meetings
2. The incident action plan
3. Surveillance and reconnaissance efforts
4. Product information and documentation by technical specialists

Following information gathering, the SO should prepare an incident safety plan (using established forms) and safety briefing checklists for members. Once created, the SO should ensure that members receive the formal briefing and document who has received the briefing.

Demonstrating competency for this JPR can be achieved through supervised performance during hands-on drills as well as table-top exercises.

A.5.5.4

Often, it is the SO who provides input for the creation of common hazmat control zones, which can include the following:

1. No-entry zone
2. Hot zone (IDLH reduction zone)
3. Hazard reduction zone (decontamination)
4. Support zone
5. Cold zone
The method of zone communication also needs to be addressed. The AHJ typically outlines the zone communication method using traffic cones and barrier tape. NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, outlines a general zone communication method that uses color-coded barrier tapes:

1. **No-entry zone**: red and white chevron or diagonal striped tape
2. **Hot zone**: red tape
3. **Warm zone**: yellow tape
4. **Cold (support) zone**: green tape

Demonstrating competency for this JPR can be achieved through supervised performance during hands-on drills and should include diagraming the zones (written) as well as directing members who set up the zones.

- No-entry zone: red and white chevron or diagonal striped tape
- Hot zone: red tape
- Warm zone: yellow tape
- Cold (support) zone: green tape

Demonstrating competency for this JPR can be achieved through supervised performance during hands-on drills and should include diagraming the zones (written) as well as directing members who set up the zones.

### A.5.6.1

The IS assigned to an incident where an injury, accident, or near-miss occurs must start, but not necessarily finish, the investigative process. An IS who is a witness to the events might not offer a nonjudgmental approach to the investigation.

**A.5.1.2**

In cases where a member sustains a serious or fatal injury, the IS might be viewed as a witness rather than as opposed to an investigator. In such cases, the designated IS should notify the department’s health and safety officer HSO to fulfill the investigative requirements of the department. In cases where the designated IS is the department’s health and safety officer HSO, the IS needs to notify the incident commander IC and AHJ before starting the investigative process, that potential conflict exists in starting the investigative process.

**A.5.7.1**

The IS should document pertinent information about the incident, including assignments given by the incident commander IC, the incident safety plan, procedures that worked well, obstacles encountered and how to correct them, and accidents and/or injuries.

It is important to include successful or positive actions as well as those actions that require training or procedural changes to improve incident safety and health for all members.

**A.5.7.2**

The IS should be prepared to address issues relating to personal protective equipment PPE, personnel accountability, rapid intervention posture, rehabilitation operations, the incident action plan, risk versus gain, and other issues affecting the safety and welfare of members at an incident scene.
The ability to listen to others and frame input in a constructive manner is essential for the ISO. The ISO should focus on factual observations and avoid placing blame. Judgmental statements should be reserved for interpretation of environmental conditions (fire, smoke, building integrity, etc.) as opposed to member actions.

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Committee Statement

Committee Statement: These changes are editorial in nature; old A.6.8.3 which was moved to become new A.5.1.2.
Response Message:

Ballot Results

✔ This item has passed ballot

32 Eligible Voters
11 Not Returned
21 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
0 Abstention

Not Returned
Blake, Paul
Bogucki, Sandy
Finkelman, Michael L.
Garrett, Christopher A.
Laton, Michael A.
Prezant, David J.
Rueda, Mario D.
Schwartz, Andrew G.
Stewart, Donald F.
Wann, Teresa
Zagaris, Kim D.

Affirmative All
Bennett, Lawrence T.
Bernzweig, David T.
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Second Revision No. 68-NFPA 1521-2013 [ Section No. E.1.1 ]

F.1.1 NFPA Publications.
National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471.


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11 Not Returned
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Smith, Denise L.
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Tamme, Susan
Terryn, Fred C.
Second Revision No. 67-NFPA 1521-2013 [ Section No. E.3 ]

F.3 References for Extracts in Informational Sections.

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0 Affirmative with Comments
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