

CFI - I Exam Weighted Criteria Table

The following table indicates the approximate percentage (%) of exam content (exam items) for the four (4) major domains and the sub-components of those domains. The domains and their sub-components (JPRs) are taken from the 2014 Edition of *NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner*.

I. Administrative & General Knowledge	40%
<ul style="list-style-type: none"> A. Prepare inspection reports. (4.2.1) <ul style="list-style-type: none"> i. (A) Requisite Knowledge. Applicable codes and standards adopted by the jurisdiction and policies of the jurisdiction. ii. (B) Requisite Skills. The ability to conduct a field inspection, apply codes and standards, and communicate orally and in writing. B. Recognize the need for a permit. (4.2.2) <ul style="list-style-type: none"> i. (A) Requisite Knowledge. Permit policies of the jurisdiction and the rationale for the permit. ii. (B) Requisite Skills. The ability to communicate orally and in writing. C. Recognize the need for plan review. (4.2.3) <ul style="list-style-type: none"> i. (A) Requisite Knowledge. Plan review policies of the jurisdiction and the rationale for the plan review. ii. (B) Requisite Skills. The ability to communicate orally and in writing. D. Investigate common complaints. (4.2.4) <ul style="list-style-type: none"> i. (A) Requisite Knowledge. Applicable codes and standards adopted by the jurisdiction and policies of the jurisdiction. ii. (B) Requisite Skills. The ability to apply codes and standards, communicate orally and in writing, recognize problems, and resolve complaints. E. Identify the applicable code or standard. (4.2.5) <ul style="list-style-type: none"> i. (A) Requisite Knowledge. Applicable codes and standards adopted by the jurisdiction. ii. (B) Requisite Skills. The ability to apply codes and standards. F. Participate in legal proceedings. (4.2.6) <ul style="list-style-type: none"> i. (A) Requisite Knowledge. The legal requirements pertaining to evidence rules in the legal system and types of legal proceedings. ii. (B) Requisite Skills. The ability to maintain a professional courtroom demeanor, communicate, listen, and differentiate facts from opinions. 	
II. Fire Protection & Building Systems	20%
<ul style="list-style-type: none"> A. Determine the operational readiness of existing fixed fire suppression systems. (4.3.5) <ul style="list-style-type: none"> i. (A) Requisite Knowledge. A basic understanding of the components and operation of fixed fire suppression systems and applicable codes and standards. ii. (B) Requisite Skills. The ability to observe, make decisions, recognize problems, and read reports. B. Determine the operational readiness of existing fire detection and alarm systems. (4.3.6) <ul style="list-style-type: none"> i. (A) Requisite Knowledge. A basic understanding of the components and operation of fire detection and alarm systems and devices and applicable codes and standards. ii. (B) Requisite Skills. The ability to observe, make decisions, recognize problems, and read reports. C. Determine the operational readiness of existing portable fire extinguishers. (4.3.7) <ul style="list-style-type: none"> i. (A) Requisite Knowledge. A basic understanding of portable fire extinguishers, including their components and placement, and applicable codes and standards. ii. (B) Requisite Skills. The ability to observe, make decisions, recognize problems, and read reports. D. Compare an approved plan to an existing fire protection system. (4.3.9) <ul style="list-style-type: none"> i. (A) Requisite Knowledge. Fire protection symbols and terminology. 	

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- ii. (B) Requisite Skills. The ability to read and comprehend plans for fire protection systems, observe, communicate, apply codes and standards, recognize problems, and make decisions.

E. Determine code compliance. (4.3.15)

- i. (A) Requisite Knowledge. Basic fire behavior; flame spread and smoke development ratings of contents, interior finishes, building construction elements, life safety systems, decorations, decorative materials, and furnishings; and safe housekeeping practices.
- ii. (B) Requisite Skills. The ability to observe, communicate, apply codes and standards, recognize hazardous conditions, and make decisions.

F. Verify fire flows for a site (4.3.16)

- i. (A) Requisite Knowledge. Types of water distribution systems and other water sources in the local community, water distribution system testing, characteristics of public and private water supply systems, and flow testing procedures.
- ii. (B) Requisite Skills. The ability to use Pitot tubes, gauges, and other data gathering devices as well as calculate and graph fire flow results.

III Storage Handling & Use of Flammable Hazardous Substances and Materials

20%

A. Recognize hazardous conditions involving equipment, processes, and operations. (4.3.8)

- i. (A) Requisite Knowledge. Practices and techniques of code compliance inspections, fire behavior, fire prevention practices, ignition sources, safe housekeeping practices, and classification of hazardous materials.
- ii. (B) Requisite Skills. The ability to observe, communicate, apply codes and standards, recognize problems, and make decisions.

B. Verify code compliance for incidental storage, handling, and use of flammable and combustible liquids and gases. (4.3.12)

- i. (A) Requisite Knowledge. Classification, properties, labeling, storage, handling, and use of incidental amounts of flammable and combustible liquids and gases.
- ii. (B) Requisite Skills. The ability to observe, communicate, apply codes and standards, recognize problems, and make decisions.

C. Verify code compliance for incidental storage, handling, and use of hazardous materials. (4.3.13)

- i. (A) Requisite Knowledge. Classification, properties, labeling, transportation, storage, handling, and use of hazardous materials.
- ii. (B) Requisite Skills. The ability to observe, communicate, apply codes and standards, recognize problems, and make decisions.

IV Life Safety

20%

A. Identify the occupancy classification of a single-use occupancy. (4.3.1)

- i. (A) Requisite Knowledge. Occupancy classification types; applicable codes, regulations, and standards adopted by the jurisdiction; operational features; and fire hazards presented by various occupancies.
- ii. (B) Requisite Skills. The ability to make observations and correct decisions.

B. Compute the allowable occupant load of a single-use occupancy or portion thereof. (4.3.2)

- i. (A) Requisite Knowledge. Occupancy classification; applicable codes, regulations, and standards adopted by the jurisdiction; operational features; fire hazards presented by various occupancies; and occupant load factors.
- ii. (B) Requisite Skills. The ability to calculate occupant loads, identify occupancy factors related to various occupancy classifications, use measuring tools, and make field sketches.

C. Inspect means of egress elements. (4.3.3)

- i. (A) Requisite Knowledge. Applicable codes and standards adopted by the jurisdiction related to means of egress elements, maintenance requirements of egress elements, types of construction, occupancy egress requirements, and the relationship of fixed fire protection systems to egress requirements and to approved means of egress elements, including, but not limited to, doors, hardware, and lights.
- ii. (B) Requisite Skills. The ability to observe and recognize problems, calculate, make basic decisions related to means of egress, use measuring tools, and make field sketches.

D. Verify the type of construction for an addition or remodeling project (4.3.4)

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- i. (A) Requisite Knowledge. Applicable codes and standards adopted by the jurisdiction, types of construction, rated construction components, and accepted building construction methods and materials.
 - ii. (B) Requisite Skills. The ability to read plans, make decisions, and apply codes and standards.
 - E. Verify that emergency planning and preparedness measures are in place and have been practiced. (4.3.10)
 - i. (A) Requisite Knowledge. Requirements relative to emergency evacuation drills that are required within the jurisdiction, ways to conduct and/or evaluate fire drills in various occupancies, and human behavior during fires and other emergencies.
 - ii. (B) Requisite Skills. The ability to identify the emergency evacuation requirements contained in the applicable codes and standards and interpret plans and reports.
 - F. Inspect emergency access for an existing site (4.3.11)
 - i. (A) Requisite Knowledge. Applicable codes and standards, the policies of the jurisdiction, and emergency access and accessibility requirements.
 - ii. (B) Requisite Skills. The ability to identify the emergency access requirements contained in the applicable codes and standards, observe, make decisions, and use measuring tools.
 - G. Recognize a hazardous fire growth potential in a building or space. (4.3.14)
 - i. (A) Requisite Knowledge. Basic fire behavior; flame spread and smoke development ratings of contents, interior finishes, building construction elements, decorations, decorative materials, and furnishings; and safe housekeeping practices.
 - ii. (B) Requisite Skills. The ability to observe, communicate, apply codes and standards, recognize hazardous conditions, and make decisions.