

# Minnesota Fire Service Certification

## WEB VERSION - Fire Inspector I

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### NFPA 1031 - 2014 Edition

#### Prerequisite

A completed application and test fee payment arrangements are required before taking the Fire Inspector I certification test. The candidate is expected to be knowledgeable and able to meet the criteria outlined in NFPA 1031. The Minnesota Fire Service Certification Board does not provide any training, nor do we provide examination reviews. The Board does not require a specific program for applicants. No prior certification is required.

#### Standard

NFPA 1031 Fire Inspector & Plan Examiner; 2014 Edition

The questions and skills tested are designed to test the candidate on the knowledge and proficiencies outlined in NFPA 1031 for Fire Inspector I. All questions in the test bank have been referenced to the standards noted above.

#### Reference List (V9.0)

The textbooks listed below were used in developing the test questions and the practical exams for the Certification test. The candidate should have knowledge of the information contained in the related books below.

- NFPA 1031, *Standard for Professional Qualifications for Fire Inspector and Plan Examiner*, 2014 Edition
- IFSTA, *Fire Inspection and Code Enforcement*, 7th Edition, 1st Printing
- Jones and Bartlett, *Fire Inspector, Principles and Practice*, 1st Edition, 1st Printing

#### Test

The test is two parts, a written test and a practical exam. The written test is made up of 100 multiple-choice questions. The questions are selected at random from a Fire Inspector I test bank of 519 questions. A score of 70 percent must be achieved in order to receive a passing score. The practical exam consists of the candidate demonstrating proficiency in at least 8 (eight) categories selected at random from the skills required in the NFPA 1031 standard.

**Cost** See fee schedule

#### Recertification

- Every three years.
- Requires 24 hours of Fire Inspector I training/experience for each of the three years.
  - NFPA 1031 (2014 Edition) 1.3.10 The Fire Inspector and plan examiner at all levels of progression shall remain current with the origins and limits of their authority, fire protection technology, fire prevention practices, inspection methods, and applicable codes and standards.
- Recertification cost is listed on the Recertification Application.

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## Fire Inspector I NFPA 1031 2014 Edition



### Requirements:

1. There are no prerequisites for Fire Inspector I
2. Completed application form and fee is covered.
3. Candidate will be required to complete 8 of the 19 skill stations. Skills will be chosen at random by the evaluator.
4. **Candidate is required to provide their own copy of the current Minnesota State Fire Code.**

**NOTE** – The skill stations displayed here have illustrative scenarios, **none** of these are the test scenario. Those are provided at the time of the test. The actual test scenario will be evaluated based on the same competencies detailed in each of the illustrative skill stations and will be to the NFPA standard as detailed in each skill station.

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## SKILL STATION 1

### ADMINISTRATION/COMMUNICATIONS

**Reference: NFPA 1031 (2014 Edition) Section: 4.2.1 & 4.2.2**

Prepare inspection reports, given agency policy and procedures, and observations from an assigned field inspection, so that the report is clear and concise and reflects the findings of the inspection in accordance with applicable codes and standards and the policies and procedures of the jurisdiction. (4.2.1)

Recognize the need for a permit, given a situation or condition, so that requirements for permits are communicated in accordance with the applicable codes and standards and the policies of the jurisdiction. (4.2.2)

**Skill:** You have received a telephone request for information regarding a change in one of the properties in your response area. Provide a one-page correspondence to communicate the need for a permit, so that the correspondence is concise, accurately reflects codes and standards, and is appropriate for the intended audience.

**Illustrative Scenarios:**

1. A business occupancy wants to put a small addition onto their building. Write a letter informing them of the permits and fees required by your jurisdiction.
2. An educational occupancy wants to convert storage space to a photo lab. Write a letter informing them of the permits and fees required by your jurisdiction.
3. A woodworking shop wants to add a spray booth operation to their operation. Write a letter informing them of the permits and fees required by your jurisdiction.

**Competencies:**

1. Recognize the need for a permit in the given situation.
  2. Letter is concise and written to the intended audience.
  3. Letter is written using correct grammar and punctuation.
  4. Letter reflects the applicable codes and standards with references.
  5. The ability to communicate orally.
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## SKILL STATION 2

### ADMINISTRATION/REPORT

**Reference: NFPA 1031 (2014 Edition) Section: 4.2.1 & 4.2.2**

Prepare inspection reports, given agency policy and procedures, and observations from an assigned field inspection, so that the report is clear and concise and reflects the findings of the inspection in accordance with applicable codes and standards and the policies and procedures of the jurisdiction. (4.2.1)

Recognize the need for a permit, given a situation or condition, so that requirements for permits are communicated in accordance with the applicable codes and standards and the policies of the jurisdiction. (4.2.2)

**Skill:** Prepare and complete a typed inspection report not to exceed two pages in length. Correspondence shall be concise and accurately reflect the finding of an inspection utilizing the applicable codes and standards.

**Illustrative Scenarios:**

1. While on inspection at an assembly you encounter an unlit exit sign.
2. While on inspection you in senior high rise you encounter a disabled smoke detector in an exit corridor.
3. While on inspection at a business you encounter discharged fire extinguishers
4. While on inspection at a mercantile you encounter storage blocking sprinkler heads.

**Competencies:**

1. Letter is concise and written to the intended audience.
2. Letter is written using correct grammar and punctuation.
3. Letter reflects the applicable codes and standards, with references.
4. The ability to interpret codes and standards

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## SKILL STATION 3

### ADMINISTRATION/INVESTIGATE COMPLAINT

**Reference: NFPA 1031 (2014 Edition) Section: 4.2.4 and 4.2.5**

Investigate common complaints, given a reported situation or condition, so that complaint information is recorded, the AHJ-approved process is initiated, and the complaint is resolved. (4.2.4)

Identify the applicable code or standard, given a fire protection, fire prevention, or life safety issue, so that the applicable document, edition, and section are referenced. (4.2.5)

**Skill:** On one page describe procedures to investigate a common complaint that requires an inspection. Include the process from initial complaint recording to resolving the complaint.

**Illustrative Scenarios:**

1. A citizen calls to inform you they just left an event at a local nightclub where people were elbow to elbow, no one could move, and the next performer was a band with a pyrotechnic component.
2. An employee of a local manufacturing shop called to complain that his employer had used the extinguisher to put out a small fire three weeks ago and it still had not been recharged.
3. A citizen stops in to advise you that they noticed the brass things on the side of the building (provides address) appear to be vandalized.
4. The city council member calls to tell you about a code violation in a local family run business which just happens to be a direct competitor of her family's locally operated business.

**Competencies:**

1. Receive the complaint and record all information with regards to the complaint.
2. Explain the appropriate actions or process followed, correctly interpreting the code
3. Action taken reflects proper code enforcement.
4. Appropriate records and files are maintained to document action taken to resolve the complaint.

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### SKILL STATION 4

#### ADMINISTRATION/PROPER DOCUMENTATION

**Reference: NFPA 1031 (2014 Edition) Section: 4.2.6**

Participate in legal proceedings, given the findings of a field inspection or a complaint and consultation with legal counsel, so that all information is presented, and the inspector's demeanor is professional.  
(4.2.6)

**Skill:** Prepare proper documents in preparation for testimony at a legal proceeding.

**Illustrative Scenarios:**

1. A local mercantile has constructed a display area that obstructs a sprinkler head. You have issued two corrective actions without compliance and have now had to issue a citation.
2. A local business owner has moved additional product into their mercantile operation (combustible plastics) that now exceed the sprinkler density. You have issued two corrective orders, the owner has appealed to the local and state appeals board and been denied in both. You have now issued a citation.
3. A local landlord of a multi-tenant multi-family property has ignored all corrective orders to repair smoke and CO alarms, and you have now issued a citation.

**Competencies:**

1. Prior to the court proceedings, prepare proper documentation and other information that will be needed for the hearing process.
2. Describe the appropriate type of dress/attire for the type of hearing or court appearance.
3. Describe the proper demeanor for the hearing or court appearance both in action and during the communication process.
4. Differentiate between fact and opinion.
5. Listens to questions and answers appropriately.

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### SKILL STATION 5

#### ADMINISTRATION/OCCUPANCY CLASSIFICATION

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.1**

Identify the occupancy classification of a single use structure, given the description of the occupancy and its use, so that an accurate classification is made according to the applicable codes and standards. Based on the scenario below, prepare and provide the owner with the proper classification for his/her new facility along with current codes and standards. (4.3.1)

**Skill:** Identify the occupancy classification of a single use structure, given the description of the occupancy and its use, so that an accurate classification is made according to the applicable codes and standards. Based on the scenario below, prepare and provide the owner with the proper classification for his/her new facility along with current codes and standards.

**Illustrative Scenarios:**

1. A business owner of a personal care manufacturing company wants to relocate to your community into a vacant warehouse that was built as a spec building for low hazards. The business owner mentions they will have at least one 10,000 gallon alcohol tank.
2. A local strip mall has been approached by a charter school which wants to rent one of the spaces to open an early childhood program.
3. Your largest church, of which the Mayor is a parishioner, is adding onto to their business office and will be constructing an attached addition that will include small and large meeting spaces, a commercial grade kitchen, and an activity center.

**Competencies:**

1. Demonstrate ability to reference current applicable codes.
2. Demonstrate ability to adequately reclassify the occupancy.
3. Demonstrate a working knowledge of current codes and statutes related to the above mentioned.
4. Ability to make observations.

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### SKILL STATION 6

#### ADMINISTRATION/OCCUPANT LOAD

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.2**

Compute the allowable occupant load of a single-use occupancy or portion thereof, given a detailed description of the occupancy, so that the calculated allowable occupant load is established in accordance with applicable codes and standards. (4.3.2)

**Skill:** Compute the allowable occupant load of a single use occupancy or portion thereof.

**Illustrative Scenarios:**

1. The fire department is building a new station and wants to include a training room and wants to know the allowable occupant load if just chairs and then chairs and tables. The room is 75' x 75' in dimension.
2. A local church is converting a storage space to a meeting room. The space is 15' x 25'. They want to know what the allowable occupant load is if they purchase a conference table that is 42" x 100" in size.
3. The National Sports Center is hosting a major event featuring a well-known keynote speaker. They will be using their fieldhouse which is 150' x 200' and has 8 sets of double exit doors. They want to know what the occupant load is for plastic folding chairs that are cable tied together.

**Competencies:**

1. Make a field sketch including the measurements.
2. Calculate the total occupant load for the specific area of occupancy.
3. Identify the occupancy type.
4. Provide codes and standards used for computing occupancy.
5. Show mathematical calculations.
6. Measure properly

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### SKILL STATION 7

#### FIELD INSPECTIONS/EGRESS

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.3**

Inspect means of egress elements, given observations made during a field inspection of an existing building, so that means of egress elements are maintained in compliance with applicable codes and standards and all deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction. (4.3.3)

**Skill:** Inspect means of egress to ensure that all elements are maintained in compliance with all applicable codes and standards. Identify all deficiencies and prepare a written report of violations.

**Illustrative Scenarios:**

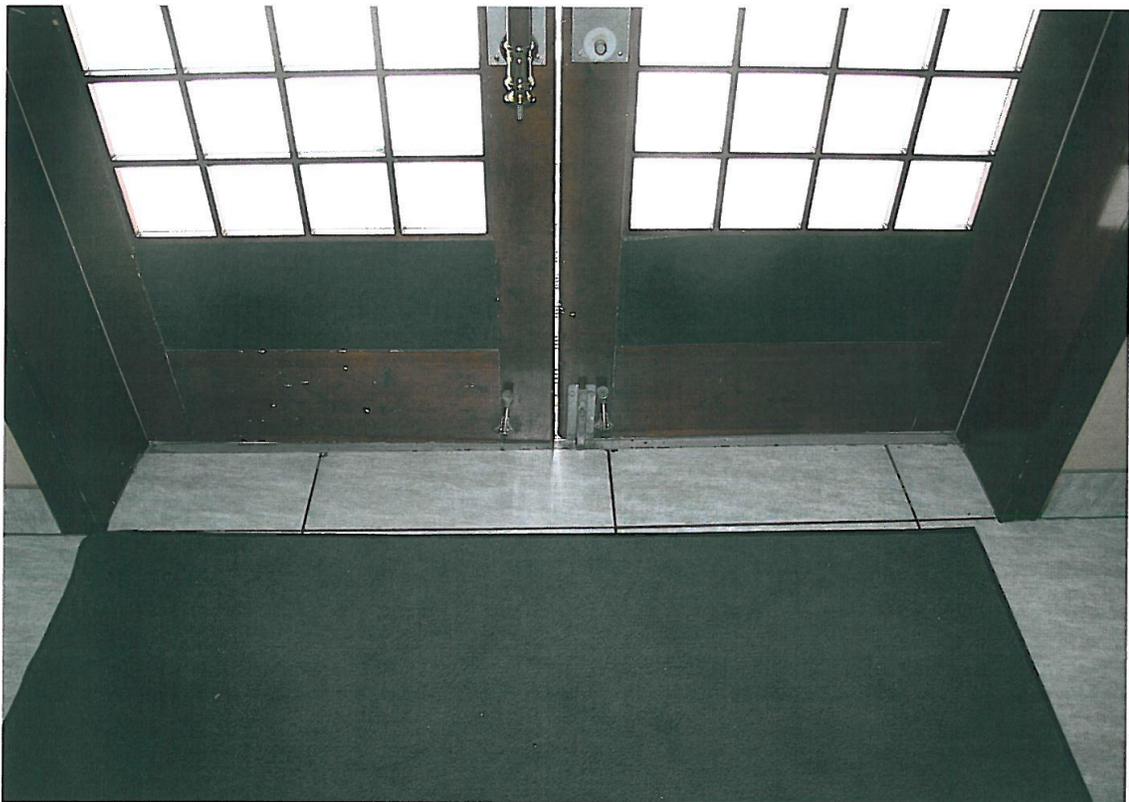
1. While out on a field inspection you notice that one half of a double door is locked at a local restaurant.
2. During a field inspection of a local neighborhood grocery store you observe the back exit door is locked and bolted shut. The owner tells you that he sometimes forgets to secure the door, and thieves have broken in so he just leaves it locked all the time.
3. During a field inspection you observe remodeling construction material in an exit corridor at the local senior high rise. The contractor tells you there is no storage anywhere else and it will only be there for a week or maybe two.

**Competencies:**

1. Identify all code violations observed.
2. Reference applicable code sections calculating the appropriate egress.
3. Provide written documentation of the violations and correction letter form.

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### SKILL STATION 8

#### FIELD INSPECTIONS/PLAN REVIEW

**Reference: NFPA 1031 (2014 Edition) Section: 4.2.3 and 4.3.4**

Recognize the need for plan review, given a situation or condition, so that requirements for plan reviews are communicated in accordance with the applicable codes and standards and the policies of the jurisdiction. (4.2.3)

Recognize the need for a plan review given a situation of conditions so the requirements for a plan review are communicated in accordance with the policies of the jurisdiction. Based on the scenario below, determine the construction type and plan review. Write a brief report and communicate it written and orally to the property owner. (4.2.4)

**Skill:** Recognize the need for a plan review given a situation of conditions so the requirements for a plan review are communicated in accordance with the policies of the jurisdiction. Based on the scenario below, determine the construction type and plan review. Write a brief report and communicate it written and orally to the property owner.

**Illustrative Scenarios:**

1. A local body shop is interested in an addition consisting of two more work bays, a spray booth bay, and a customer waiting area. The current building is a 2,000 square foot block building with a small bathroom and office and unprotected steel bar joists.
2. The local high school is adding an Olympic size pool onto the existing block building.
3. An investor has purchased an abandoned one-story commercial building used by an automobile sales operation for the past 25 years. The building is block and bar joist and met all codes include being sprinklered. The investor is financing a three-story addition and conversion of the existing building to rental space for storage of personal and business items.

**Competencies:**

1. Identify the type of construction is determined.
2. Identify the need for a plan and communicate the requirements.
3. The ability to communicate in writing a plan review letter on what is required per the code.

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### SKILL STATION 9

#### FIELD INSPECTIONS/OPERATIONAL READINESS

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.5**

Determine the operational readiness of existing fixed fire suppression systems, given test documentation and field observations, so that the systems are in an operational state, maintenance is documented, and deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction. (4.3.5)

**Skill:** Determine the operational readiness of an existing fixed fire suppression system and components.

**Illustrative Scenario:**

1. You are a fire inspector and conduct an inspection of a facility in your area. You are inspecting a fire pump system and observe the following (see attachment). Determine if the system is operational and identify and explain any operational deficiencies.
2. You are a fire inspector and conduct an inspection of a facility in your area. You are inspecting the fire sprinkler system and observe the following (see attachment). Determine if the system is operational and identify and explain any operational deficiencies.

**Competencies:**

1. All operational deficiencies are identified and explained.
2. Referenced applicable codes and standards.
3. Properly read inspection reports and tags as provided by owner.
4. Write a correction or violation letter on the deficiency.

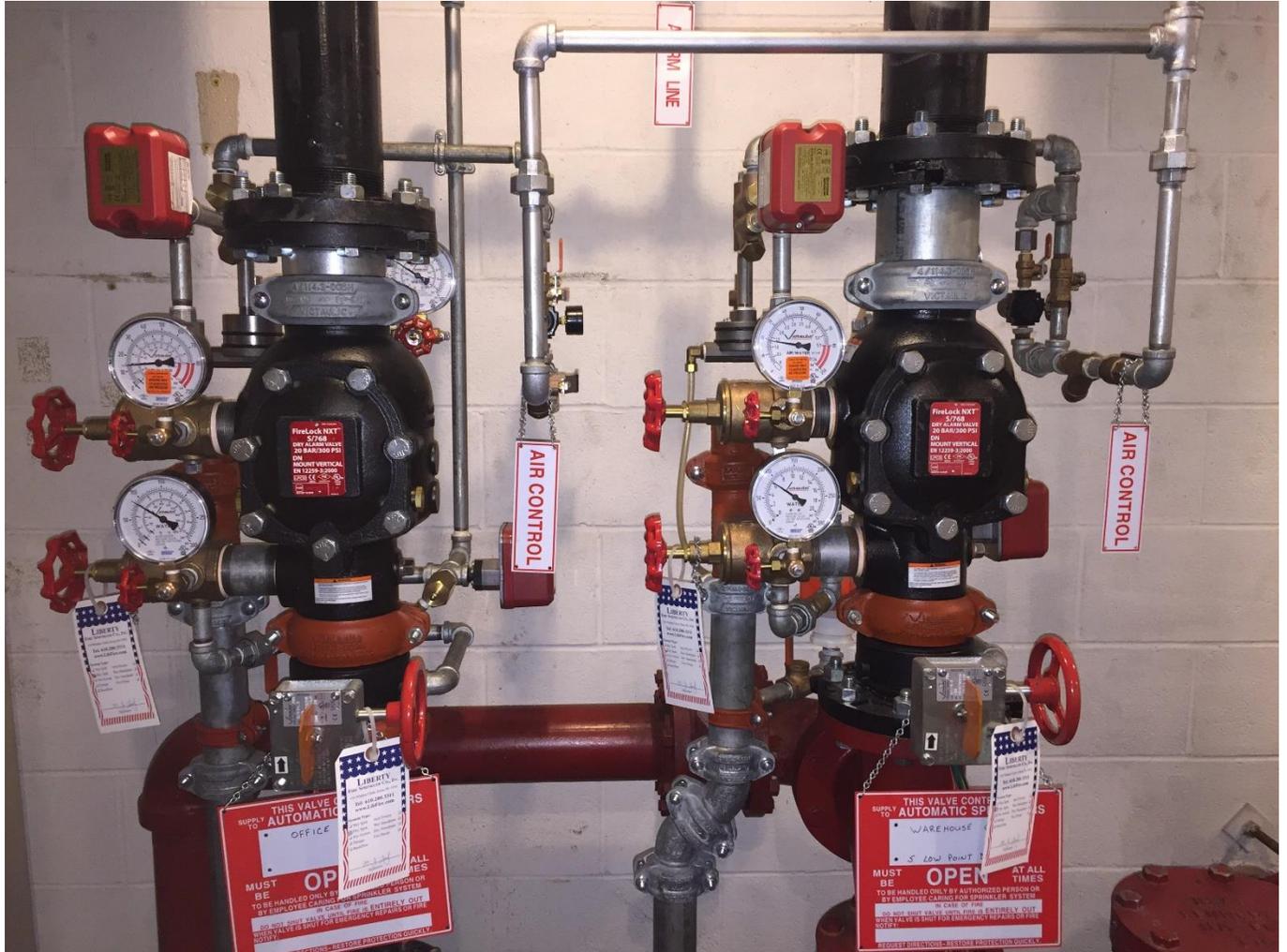
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### SKILL STATION 10

#### FIELD INSPECTIONS/OPERATIONAL READINESS DETECTION

Candidate Number \_\_\_\_\_

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.6**

Determine the operational readiness of existing fire detection and alarm systems, given test documentation and field observations, so that the systems are in an operational state, maintenance is documented, and deficiencies are identified, documented, and reported in accordance with the policies of the jurisdiction. (4.3.6)

**Skill:** Given test documentation and field observations, determine the operational readiness of an existing fire detection and alarm system.

**Illustrative Scenario:**

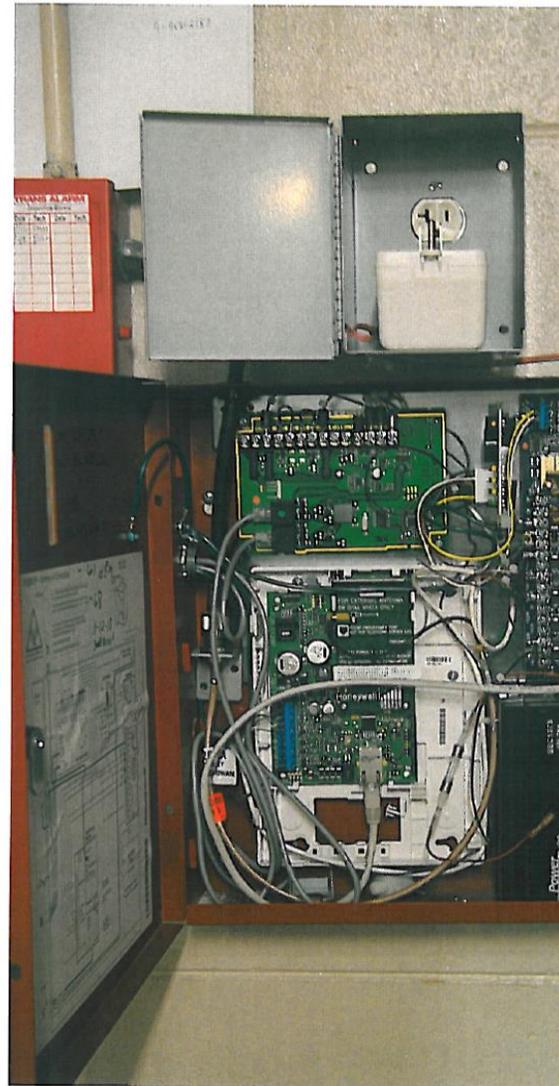
1. You are inspecting a high-rise senior building, and the fire panel shows a trouble light.
2. You are at a large mercantile and the fire panel is in the main entry and unsecure.
3. You are inspecting a local business hazard occupancy with over 100 employees and the fire panel appears to be lacking electrical power as no lights are on.

**Competencies:**

1. The applicant is able to explain in writing if the fire alarm system is or is not operational and in compliance.
2. The ability to observe and make proper decisions.
3. The ability to recognize problems.
4. The ability to read inspection reports.
5. Write a correction or violation letter on the deficiency.

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### SKILL STATION 11

#### FIELD INSPECTIONS/FIRE EXTINGUISHERS

Candidate Number \_\_\_\_\_

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.7**

Determine the operational readiness of existing portable fire extinguishers, given field observations and test documentation, so that the equipment is in an operational state, maintenance is documented, and deficiencies are identified, documented, and reported in accordance with the policies of the jurisdiction. (4.3.7)

**Skill:** Describe in writing the operational readiness of a portable fire extinguisher.

**Illustrative Scenarios:**

1. Class A/B/C extinguisher
2. Class D extinguisher
3. Water/pump Can

**Competencies:**

1. Identify the type of fire extinguisher.
2. Explain fire extinguisher gauge reading.
3. Explain components of a visual fire extinguisher inspection.
4. Explain the information required on the fire extinguisher service tag.
5. Write a correction or violation letter on the deficiency.

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### SKILL STATION 12

#### FIELD INSPECTIONS/HAZARDOUS CONDITIONS

Candidate Number \_\_\_\_\_

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.8**

Recognize hazardous conditions involving equipment, processes, and operations, given field observations, so that the equipment, processes, or operations are conducted and maintained in accordance with applicable codes and standards and deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction. (4.3.8)

**Skill:** Recognize and identify hazardous conditions involving equipment, processes, and operations given field observations. In accordance with applicable codes, identify and report all deficiencies in a concise and accurate manner.

**Illustrative Scenarios:**

1. You are at a local wood shop which is using spray equipment to apply contact cement for adhering plastic laminate. The operation is in the middle of the shop.
2. You are inspecting a local metal fabrication shop that has welding equipment (torches and flammable gas) and work being done in the middle of the building.
3. You are inspecting a local metal finishing operation you observe dip tanks which unknown chemicals inside the tanks.

**Competencies:**

1. Identify and explain all code violations observed.
2. Reference applicable code section.
3. Write a correction or violation letter on the deficiency.

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### SKILL STATION 13

#### FIELD INSPECTIONS/MODIFICATIONS

**Candidate Number** \_\_\_\_\_

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.9**

Compare an approved plan to an existing fire protection system, given approved plans and field observations, so that any modifications to the system are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction. (4.3.9)

**Skill:** Compare an approved plan to an installed fire protection system and determine if there are any modifications. Document any modifications observed using the applicable codes.

**Illustrative Scenarios:** See attached plan and photo.

**Competencies:**

1. Ability to read and comprehend plans.
2. Ability to observe and recognize differences in plan vs. installation.
3. Ability to interpret, document, and enforce applicable codes.
4. Write a correction or violation letter on the deficiency.



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### SKILL STATION 14

#### FIELD INSPECTIONS/EMERGENCY PLANNING

Candidate Number \_\_\_\_\_

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.10**

Verify that emergency planning and preparedness measures are in place and have been practiced, given field observations, copies of emergency plans, and records of exercises, so that plans are prepared, and exercises have been performed in accordance with applicable codes and standards and deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction. (4.3.10)

**Skill:** Verify that emergency planning and preparedness measures are in place and have been practiced.

**Illustrative Scenarios:**

1. You are a Fire Inspector conducting a fire drill at a senior living facility. What are the requirements from the fire code for fire evacuation plans.
2. You are a Fire Inspector standing watch at an assembly with a sporting event. What requirements, plans, and documentation does the facility need to provide to ensure compliance with the code.

**Competencies:**

1. Explain emergency evacuation requirements in educational occupancies.
2. Explain how you would verify that fire drills have been conducted in accordance with applicable codes.
3. Interpret evacuation plans and reports on drills.
4. Explain in writing what codes are required for emergency planning.

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### SKILL STATION 15

#### FIELD INSPECTIONS/ACCESS

Candidate Number \_\_\_\_\_

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.11 and 4.3.15**

Inspect emergency access for an existing site, given field observations, so that the required access for emergency responders is maintained and deficiencies are identified, documented, and corrected in accordance with the applicable codes, standards, and policies of the jurisdiction. (4.3.11)

Determine code compliance, given the codes, standards, and policies of the jurisdiction and a fire protection issue, so that the applicable codes, standards, and policies are identified, and compliance determined. (4.3.15)

**Skill:** Inspect and verify emergency access for a site. Ensure that the required access for emergency responders is maintained.

Based on the scenario below, briefly describe the minimum code requirements that would regulate fire department access.

**Illustrative Scenarios:**

1. You are reviewing a site plan for an access road that is 300 feet long and 20 feet wide.
2. Explain where fire department key boxes are required.
3. Explain where a security gate is in compliance with the fire code.

**Competencies:**

1. Identify all code violations observed.
2. Reference applicable code sections.
3. Make appropriate measurements
4. Write a correction or violation letter on the deficiency.

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### SKILL STATION 16

#### FIELD INSPECTIONS/STORAGE FLAMMABLE LIQUIDS

Candidate Number \_\_\_\_\_

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.12 and 4.3.15**

Verify code compliance for incidental storage, handling, and use of flammable and combustible liquids and gases, given field observations and inspection guidelines from the AHJ, so that applicable codes and standards are addressed, and deficiencies are identified, documented, in accordance with the applicable codes and standards and the policies of the jurisdiction. (4.3.12)

Determine code compliance, given the codes, standards, and policies of the jurisdiction and a fire protection issue, so that the applicable codes, standards, and policies are identified, and compliance determined. (4.3.15)

**Skill:** Verify code compliance for incidental storage, handling, and use of flammable and combustible liquids. Create a report in accordance with the code and policies of your jurisdiction.

**Illustrative Scenarios:**

1. You are inspecting a senior housing complex, underground garage area and notice multiple cans of gasoline in what appear to be approved containers.
2. You are on sight of an automotive repair facility that has several dozen 55-gallon drums stored both in the back corner and outside the building which is constructed out of concrete blocks. There appears to be some material in several of them, but it is difficult to determine quantity and product.

**Competencies:**

1. Using applicable codes, identify allowable quantities of Class I, II, and III flammable and combustible liquids which are acceptable for storage in an office building and proper storage methods.
2. Reference applicable code sections
3. Provide written documentation of any violations.
4. Write a correction or violation letter on the deficiency.

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### SKILL STATION 17

#### FIELD INSPECTIONS/STORAGE HAZARDOUS MATERIALS

**Candidate Number** \_\_\_\_\_

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.13 and 4.3.15**

Verify code compliance for incidental storage, handling, and use of hazardous materials, given field observations, so that applicable codes and standards for each hazardous material encountered are addressed and deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction. (4.3.13)

Determine code compliance, given the codes, standards, and policies of the jurisdiction and a fire protection issue, so that the applicable codes, standards, and policies are identified, and compliance determined. (4.3.15)

**Skill:** Verify code compliance for incidental storage, handling, and use of hazardous materials so that all code for each hazardous material encountered are properly addressed.

**Illustrative Scenario:**

1. During a routine inspection of a small business, you note the owner has two cases of white gas for camp stove use.
2. While conducting an inspection of an educational occupancy, you discover the science teacher has several one-gallon cans of various solvents and other similar type materials.

**Competencies:**

1. Identify all code violations observed.
2. Reference applicable code sections.
3. Detail the options allowed to increase the amount of storage (if applicable).
4. Write a correction or violation letter on the deficiency.

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### SKILL STATION 18

#### FIELD INSPECTIONS/FIRE GROWTH

**Candidate Number** \_\_\_\_\_

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.14 and 4.3.15**

Recognize a hazardous fire growth potential in a building or space, given field observations, so that the hazardous conditions are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction. (4.3.14)

Determine code compliance, given the codes, standards, and policies of the jurisdiction and a fire protection issue, so that the applicable codes, standards, and policies are identified, and compliance determined. (4.3.15)

**Skill:** Recognize a hazardous fire growth potential in a building or space. Based on the scenario below, identify the hazardous fire growth potential, identify any associated hazards, and document the proper codes.

**Illustrative Scenarios:**

1. You are inspecting a church with sound baffling on the walls in the worship area.
2. You are inspecting a haunted house for a fund-raiser, and you notice decorations through the exit corridor.

**Competencies:**

1. Accurately identify the fire hazard(s).
2. Reference the applicable code section.
3. Provide written documentation of the violations.

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### SKILL STATION 19

#### FIELD INSPECTIONS/FIRE FLOW

**Candidate Number** \_\_\_\_\_

**Reference: NFPA 1031 (2014 Edition) Section: 4.3.16**

Verify fire flows for a site, given fire flow test results and water supply data, so that required fire flows are in accordance with applicable codes and standards and deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.  
(4.3.16)

**Skill:** Determine fire flow calculations.

**Illustrative Scenarios:**

1. You have a new building coming into your town. Calculate the fire-flow requirements for a type IV 9,600 sq. ft. building.

**Competencies:**

1. Accurately identify the fire flow available.
2. Reference the applicable code section.
3. Provide written documentation of the flow requirements for the building.