

Reference Materials

The jurisdictional entity in which the Fire Inspector Personnel serves must have access to the most current editions of the following training manuals:

U.S. Department of Transportation

Emergency Response Guidebook

IFSTA

Fire Inspection and Code Enforcement

Plans Examiner for Fire and Emergency Services

NFPA

NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications

NFPA 1031: Standard for Professional Qualifications for Fire Inspector and Plan Examiner

Minimum Requirements

The certification Program offers three (3) levels of Fire Inspector Certification:

Fire Inspector I

Applicants must complete one (1) of the following:

- a) NFPA 1031: Inspector I; or
- b) TCFP Fire Inspector I curriculum; or
- c) All required objectives from the SFFMA Fire Inspector I curriculum.

Fire Inspector II

Applicants must complete one (1) of the following:

- a) NFPA 1031: Inspector II; or
- b) TCFP Fire Inspector II curriculum; or
- c) All required objectives from the SFFMA Fire Inspector II curriculum.

Applicants must also hold, or apply concurrently for, the following SFFMA certifications:

- a) Inspector I

Plans Examiner I

Applicants must complete one (1) of the following:

- a) NFPA 1031: Plans Examiner I; or
- b) TCFP Plans Examiner I curriculum; or
- c) All required objectives from the SFFMA Plans Examiner I curriculum.

Applicants must also hold, or apply concurrently for, the following SFFMA certifications:

- a) Inspector I; and
- b) Inspector II.

SFFMA Fire Inspector certifications with an effective date prior to February 1, 2020 are grandfathered to the Inspector I, Inspector II, and Plans Examiner I certifications.

SECTION 1 GENERAL

- FI1-01.01 Trainee shall identify the definitions of both hazardous material (or dangerous goods, in Canada) and WMD
- FI1 01.02 Trainee shall identify the UN/DOT hazard classes and divisions of hazardous materials/WMD and identify common examples of materials in each hazard class or division
- FI1 01.03 Trainee shall identify the primary hazards associated with each UN/DOT hazard class and division
- FI1 01.04 Trainee shall identify the difference between hazardous materials/WMD incidents and other emergencies
- FI1 01.05 Trainee shall identify typical occupancies and locations in the community where hazardous materials/WMD are manufactured, transported, stored, used, or disposed of.
- FI1 01.06 Trainee shall identify typical container shapes that can indicate the presence of hazardous materials/WMD
- FI1 01.07 Trainee shall identify facility and transportation markings and colors that indicate hazardous materials/WMD, including the following:
 - A. Transportation markings, including UN/NA identification number marks, marine pollutant mark, elevated temperature (HOT) mark, commodity marking, and inhalation hazard mark
 - B. NFPA 704: Standard System for the Identification of the Hazards of Materials for Emergency Response, markings
 - C. Military hazardous materials/WMD markings
 - D. Special hazard communication markings for each hazard class
 - E. Pipeline markings
 - F. Container markings
- FI1 01.08 Trainee, given an NFPA 704 marking, shall describe the significance of the colors, numbers, and special symbols
- FI1 01.09 Trainee shall identify U.S. and Canadian placards and labels that indicate hazardous materials/WMD
- FI1 01.10 Trainee shall identify the following basic information on material safety data sheets (MSDS) and shipping papers for hazardous materials:
 - A. Identify where to find MSDS
 - B. Identify major sections of an MSDS
 - C. Identify the entries on shipping papers that indicate the presence of hazardous materials
 - D. Match the name of the shipping papers found in transportation (air, highway, rail, and water) with the mode of transportation
 - E. Identify the person responsible for having the shipping papers in each mode of transportation
 - F. Identify where the shipping papers are found in each mode of transportation
 - G. Identify where the papers can be found in an emergency in each mode of transportation

- FI1 01.11 Trainee shall identify examples of clues (other than occupancy/location, container shape, markings/color, placards/labels, MSDS, and shipping papers) to include sight, sound, and odor of which indicate hazardous materials/WMD
- FI1 01.12 Trainee shall describe the limitations of using the senses in determining the presence or absence of hazardous materials/WMD
- FI1 01.13 Trainee shall identify at least four types of locations that could be targets for criminal or terrorist activity using hazardous materials/WMD
- FI1 01.14 Trainee shall describe the difference between a chemical and a biological incident
- FI1 01.15 Trainee shall identify at least four indicators of possible criminal or terrorist activity involving chemical agents
- FI1 01.16 Trainee shall identify at least four indicators of possible criminal or terrorist activity involving biological agents
- FI1 01.17 Trainee shall identify at least four indicators of possible criminal or terrorist activity involving radiological agents
- FI1 01.18 Trainee shall identify at least four indicators of possible criminal or terrorist activity involving illicit laboratories (clandestine laboratories, weapons lab, ricin lab)
- FI1 01.19 Trainee shall identify at least four indicators of possible criminal or terrorist activity involving explosives
- FI1 01.20 Trainee shall identify at least four indicators of secondary devices

SECTION 2 SURVEYING HAZARDOUS MATERIALS/WMD INCIDENTS

- FI1 02.01 Trainee shall identify difficulties encountered in determining the specific names of hazardous materials/WMD at facilities and in transportation
- FI1 02.02 Trainee shall identify sources for obtaining the names of, UN/NA identification numbers for, or types of placard associated with hazardous materials/WMD in transportation
- FI1 02.03 Trainee shall identify sources for obtaining the names of hazardous materials/WMD at a facility

SECTION 3 COLLECTING HAZARD INFORMATION

- FI1 03.01 Trainee shall identify the three methods for determining the guidebook page for a hazardous material/WMD
- FI1 03.02 Trainee shall identify the two general types of hazards found on each guidebook page

SECTION 4 ADMINISTRATION

- FI1 04.01 Trainee shall 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 the applicable codes and standards and the policies of the jurisdiction.
- FI1 04.02 Trainee shall 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.
- FI1 04.03 Trainee shall 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.

- FI1 04.04 Trainee shall 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.
- FI1 04.05 Trainee shall 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.
- FI1 04.06 Trainee shall 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.

SECTION 5 FIELD INSPECTION

- FI1 05.01 Trainee shall identify the occupancy classification of a single-use occupancy, given a description of the occupancy and its use, so that the classification is made according to the applicable codes and standards.
- FI1 05.02 Trainee shall 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.
- FI1 05.03 Trainee shall 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 deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.
- FI1 05.04 Trainee shall verify the type of construction for an addition or remodeling project, given field observations or a description of the project and the materials being used, so that the construction type is identified and recorded in accordance with the applicable codes and standards and the policies of the jurisdiction.
- FI1 05.05 Trainee shall 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.
- FI1 05.06 Trainee shall 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.
- FI1 05.07 Trainee shall 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.
- FI1 05.08 Trainee shall 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.
- FI1 05.09 Trainee shall 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.

- FI1 05.10 Trainee shall 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.
- FI1 05.11 Trainee shall 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.
- FI1 05.12 Trainee shall 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.
- FI1 05.13 Trainee shall 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.
- FI1 05.14 Trainee shall 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.
- FI1 05.15 Trainee shall 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 is determined.
- FI1 05.16 Trainee shall 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.

SECTION 6 **PLAN REVIEW**
No requirements at this level per NFPA

NFPA 1031: Fire Inspector II

SECTION 1 COMPETENCIES — ANALYZING THE INCIDENT

No requirements at this level per NFPA

SECTION 2 SURVEYING HAZARDOUS MATERIALS/WMD INCIDENTS

No requirements at this level per NFPA

SECTION 3 COLLECTING HAZARD INFORMATION

No requirements at this level per NFPA

SECTION 4 ADMINISTRATION

- FI2 04.01 Trainee shall process a permit application, given a specific request, so that the application is evaluated and a permit is issued or denied in accordance with the applicable codes, standards, policies, and procedures of the jurisdiction.
- FI2 04.02 Trainee shall process a plan review application, given a specific request, so that the application is evaluated and processed in accordance with the applicable codes and standards and the policies of the jurisdiction.
- FI2 04.03 Trainee shall investigate complex complaints, given a reported situation or condition, so that complaint information is recorded, the investigation process is initiated, and the complaint is resolved in accordance with the applicable codes and standards and the policies of the jurisdiction.
- FI2 04.04 Trainee shall recommend modifications to the adopted codes and standards of the jurisdiction, given a fire safety issue, so that the proposed modifications address the problem, need, or deficiency.
- FI2 04.05 Trainee shall recommend policies and procedures for the delivery of inspection services, given management objectives, so that inspections are conducted in accordance with the policies of the jurisdiction and due process of the law is followed.

SECTION 5 FIELD INSPECTION

- FI2 05.01 Trainee shall compute the maximum allowable occupant load of a multi-use building, given field observations or a description of its uses, so that the maximum allowable occupant load calculation is in accordance with applicable codes and standards.
- FI2 05.02 Trainee shall identify the occupancy classifications of a mixed-use building, given a description of the uses, so that each area is classified in accordance with applicable codes and standards.
- FI2 05.03 Trainee shall evaluate a building's area, height, occupancy classification, and construction type, given an approved set of plans and construction features, so that it is verified that the building is in accordance with applicable codes and standards.
- FI2 05.04 Trainee shall evaluate fire protection systems and equipment provided for life safety and property protection, given field observations of the facility and documentation, the hazards protected, and the system specifications, so that the fire protection systems provided are approved for the occupancy or hazard being protected.
- FI2 05.05 Trainee shall analyze the egress elements of a building or portion of a building, given observations made during a field inspection, so that means of egress elements are provided and located in accordance with applicable codes and standards and deficiencies are identified, documented, and reported in accordance with the policies of the jurisdiction.

- FI2 05.06 Trainee shall evaluate hazardous conditions involving equipment, processes, and operations, given field observations and documentation, so that the equipment, processes, or operations are installed in accordance with applicable codes and standards and deficiencies are identified, documented, and reported in accordance with the policies of the jurisdiction.
- FI2 05.07 Trainee shall evaluate emergency planning and preparedness procedures, given existing or proposed plans and procedures and applicable codes and standards, so that compliance is determined.
- FI2 05.08 Trainee shall verify code compliance for storage, handling, and use of flammable and combustible liquids and gases, given field observations and inspection guidelines from the authority having jurisdiction, so that deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.
- FI2 05.09 Trainee shall evaluate code compliance for the storage, handling, and use of hazardous materials, given field observations, so that deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.
- FI2 05.10 Trainee shall determine fire growth potential in a building or space, given field observations or plans, so that the contents, interior finish, and construction elements are evaluated for compliance, and deficiencies are identified, documented, and corrected in accordance with the applicable codes and standards and the policies of the jurisdiction.
- FI2 05.11 Trainee shall verify compliance with construction documents, given a performance-based design, so that life safety systems and building services equipment are installed, inspected, and tested to perform as described in the engineering documents and the operations and maintenance manual that accompanies the design, so that deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.
- FI2 05.12 Trainee shall verify code compliance of heating, ventilation, air conditioning, and other building service equipment and operations, given field observations, so that the systems and other equipment are maintained in accordance with applicable codes and standards and deficiencies are identified, documented, and reported in accordance with the policies of the jurisdiction.

SECTION 6 PLANS REVIEW

- FI2 06.01 Trainee shall classify the occupancy, given a set of plans, specifications, and a description of a building, so that the classification is made in accordance with the applicable codes and standards and the policies of the jurisdiction.
- FI2 06.02 Trainee shall compute the maximum allowable occupant load, given a floor plan of a building or portion of the building, so that the calculated occupant load is in accordance with the applicable codes and standards and the policies of the jurisdiction.
- FI2 06.03 Trainee shall review the proposed installation of fire protection systems, given shop drawings and system specifications for a process or operation, so that the system is reviewed for code compliance and installed in accordance with the approved drawings, and deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.
- FI2 06.04 Trainee shall review the installation of fire protection systems, given an installed system, shop drawings, and system specifications for a process or operation, so that the system is reviewed for code compliance and installed in accordance with the approved drawings, and deficiencies are

identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.

- F12 06.05 Trainee shall verify that means of egress elements are provided, given a floor plan of a building or portion of a building, so that all elements are identified and checked against applicable codes and standards and deficiencies are discovered and communicated in accordance with the policies of the jurisdiction.
- F12-6.06 Trainee shall verify the construction type of a building or portion thereof, given a set of approved plans and specifications, so that the construction type complies with the approved plans and applicable codes and standards.

SECTION 1 COMPETENCIES — ANALYZING THE INCIDENT

No requirements at this level per NFPA

SECTION 2 SURVEYING HAZARDOUS MATERIALS/WMD INCIDENTS

No requirements at this level per NFPA

SECTION 3 COLLECTING HAZARD INFORMATION

No requirements at this level per NFPA

SECTION 4 ADMINISTRATION

- PE1 04.01 Trainee shall prepare reports, given observations from a plan review, so that the report is clear and concise, and reflects the findings of the plan review in accordance with applicable codes and standards and the policies and procedures of the jurisdiction.
- PE1 04.02 Trainee shall facilitate the resolution of deficiencies identified during the plan review, given a submittal and the established policies and procedures of the jurisdiction, so that deficiencies are identified, documented, and reported to the plan submitter with applicable references to codes and standards.
- PE1 04.03 Trainee shall process plan review documents, given a set of plans and specifications, so that required permits are issued in accordance with the policies of the jurisdiction.
- PE1 04.04 Trainee shall determine the applicable code or standard, given a fire protection issue, so that the proper document, edition, and section are referenced.

SECTION 5 FIELD INSPECTION

No requirements at this level per NFPA

SECTION 6 PLANS REVIEW

- PE1 06.01 Trainee shall identify the requirements for fire protection or a life safety system, given a set of plans, so that deficiencies are identified, documented, and reported in accordance with the policies and procedures of the jurisdiction.
- PE1 06.02 Trainee shall verify the occupancy classification, given a set of plans, specifications, and a description of a building and its intended use, so that the classification is made in accordance with the applicable codes and standards and the policies of the jurisdiction.
- PE1 06.03 Trainee shall verify the construction type, given a set of plans, including the occupancy classification area, height, number of stories, and location, so that the building is in accordance with applicable codes and standards and deficiencies are identified, documented, and reported.
- PE1 06.04 Trainee shall verify the occupant load, given a set of plans, so that the maximum allowable occupant load is in accordance with applicable codes and standards.
- PE1 06.05 Trainee shall verify that required egress is provided, given a set of plans and an occupant load, so that all required egress elements are provided and deficiencies are identified, documented, and reported in accordance with the policies of the jurisdiction.
- PE1 06.06 Trainee shall evaluate code compliance for required fire flow and hydrant location and spacing, given a plan, codes and standards, and fire flow test results, so that hydrants are correctly located, required fire flow is determined, and deficiencies are identified, documented, and reported in accordance with the policies and procedures of the jurisdiction.

- PE1 06.07 Trainee shall evaluate emergency vehicle access, given a plan, so that emergency access is provided in accordance with applicable codes and standards and deficiencies are identified, documented, and reported in accordance with the policies of the jurisdiction.
- PE1 06.08 Trainee shall recommend policies and procedures for the delivery of plan review services, given management objectives, so that plan reviews are conducted in accordance with the policies of the jurisdiction and due process of the law is followed.
- PE1 06.09 Trainee shall participate in legal proceedings, given the findings of a plan review and consultation with legal counsel, so that testimony is accurate and the plan reviewer's demeanor is appropriate to the proceeding.
- PE1 06.10 Trainee shall evaluate plans for the installation of fire protection and life safety systems, given a plan submittal, so that the fire protection systems, including pre-engineered systems, and equipment are reviewed and deficiencies are identified, documented, and reported in accordance with the policies and procedures of the jurisdiction.