

- Driver/Operator-Pumper
- Fire Officer I and II
- Inspector

CHANGES TO CURRICULA

DRIVER/OPERATOR - PUMPER

Driver/Operator - Pumper

- The new curriculum corresponds to NFPA 1002, *Fire Apparatus Driver/Operator Professional Qualifications*, updated in 2009.
- Overall, changes to the curriculum were minimal. They include:
 - Major changes
 - changes to the NFPA standard
 - changes to the content of the curriculum
 - areas where repetitions were deleted
 - inclusion of the “Requisite Skills” sections from the NFPA standard
 - Minor changes
 - grammatical changes/edits
 - re-numbering of the outline without any change to the content

Driver/Operator - Pumper

Major Changes

DROP - Changes to the standard – 4.2.1

- Perform routine tests, inspections, and servicing functions on the systems and components specified in the following list, given a fire department vehicle and its manufacturer's specifications, so that the operational status of the vehicle is verified

NFPA 1002, 2003 Edition

- Perform routine tests, inspections, and servicing functions on the systems and components specified in the following list, given a fire department vehicle, ~~and~~ its manufacturer's specifications, and policies and procedures of the jurisdiction, so that the operational status of the vehicle is verified

NFPA 1002, 2009 Edition

DROP - Changes to the standard – 4.3.6

- **Requisite Knowledge.** The effects on vehicle control of liquid surge, braking reaction time, and load factors; the effects of high center of gravity on roll-over potential, general steering reactions, speed, and centrifugal force; applicable laws and regulations; principles of skid avoidance, night driving, shifting, and gear patterns; negotiation of intersections, railroad crossings, and bridges; weight and height limitations for both roads and bridges; identification and operation of automotive gauges; and operational limits.

- **Requisite Knowledge.** The effects on vehicle control of liquid surge, braking reaction time, and load factors; the effects of high center of gravity on roll-over potential, general steering reactions, speed, and centrifugal force; applicable laws and regulations; principles of skid avoidance, night driving, shifting, ~~and~~ gear patterns; and automatic braking systems in wet and dry conditions; negotiation of intersections, railroad crossings, and bridges; weight and height limitations for both roads and bridges; identification and operation of automotive gauges; and operational limits.

NFPA 1002, 2003 Edition

NFPA 1002, 2009 Edition

DROP - Changes to the standard – 5.1

- The requirements of Fire Fighter I as specified in NFPA 1001, and the job performance requirements defined in Sections 5.1 and 5.2 shall be met prior to certification as a fire department driver/operator - pumper.

- The requirements of Fire Fighter I as specified in NFPA 1001, (or the requirements of Advanced Exterior Industrial Fire Brigade Member or Interior Structural Fire Brigade Member as specified in NFPA 1081) and the job performance requirements defined in Sections 5.1 and 5.2 shall be met prior to certification qualifying as a fire department driver/operator - pumper.

NFPA 1002, 2003 Edition

NFPA 1002, 2009 Edition

DROP - Changes to the standard – 5.1.1

- Perform the routine tests, inspections, and servicing functions specified in the following list in addition to those in 4.2.1, given a fire department pumper and its manufacturer's specifications, so that the operational status of the pumper is verified

NFPA 1002, 2003 Edition

- Perform the routine tests, inspections, and servicing functions specified in the following list in addition to those in 4.2.1, given a fire department pumper, **and** its manufacturer's specifications, **and policies and procedures of the jurisdiction**, so that the operational status of the pumper is verified

NFPA 1002, 2009 Edition

DROP - Changes to the content – 4.2.1, 4.3.6

(4.2.1)

2) Battery(ies)

a) Determine maintenance/maintenance-free

i. Check water level if applicable

ii. Check overall cleanliness

(4.3.6)

12) Automatic braking systems

a) Wet conditions

b) Dry conditions

DROP – We suggest that the repetition of identical content be deleted in sections 4.3.4 and 4.3.5, adding a referral to the first mention of the content in section 4.3.3.

(4.3.4 and 4.3.5) Requisite Knowledge:

Vehicle dimensions, turning characteristics, the effects of liquid surge, spotter signaling, and principles of safe vehicle operation.

1) Vehicle dimensions

- a) Length
- b) Width
- c) Height
- d) Wheel base

...

5) Principles of safe vehicle operation

- a) Adjustment of cab features
- b) Wearing of occupant restraints
- c) Verification of personnel locations before proceeding
- d) Right of way considerations

Current curriculum

(4.3.4 and 4.3.5) Requisite Knowledge:

Vehicle dimensions, turning characteristics, the effects of liquid surge, spotter signaling, and principles of safe vehicle operation.

(Reference requisite knowledge in 700-4.3.3 for clarification.)

[Items 1) through 5) deleted in both sections 4.3.4 and 4.3.5]

New/proposed change

DROP – We suggest that the repetition of the identical content be deleted from section 5.2.2, adding a referral to the first mention of the content in section 5.2.1.

(5.2.2) Requisite Knowledge: Hydraulic calculations for friction loss and flow using both written formulas and estimation methods, safe operation of the pump, problems related to small-diameter or dead-end mains, low-pressure and private water supply systems, hydrant coding systems, and reliability of static sources.

1) Hydraulic calculations for friction loss and flow using both written formulas and estimation methods

...

7), c),

iii) Accessibility

Current curriculum

(5.2.2) Requisite Knowledge: Hydraulic calculations for friction loss and flow using both written formulas and estimation methods, safe operation of the pump, problems related to small-diameter or dead-end mains, low-pressure and private water supply systems, hydrant coding systems, and reliability of static sources (Reference requisite knowledge in 700-5.2.1)

[Items 1) through 7) deleted in section 5.2.2]

New/proposed change

Driver/Operator - Pumper

Minor Changes

DROP – 4.2.1 – Minor edit/re-numbering

8) Oil

- a) Check for leaks
- b) Check fluid level
- c) Check for obvious contamination (e.g. milky appearance, fuel odor, excessive metallic particulates)
- d) oil pressure gauge
 - i) Check oil pressure

Current curriculum

8) Oil

- a) Check for leaks
- b) Check fluid level
- c) Check for obvious contamination (e.g. milky appearance, fuel odor, excessive metallic particulates)
- d) Check oil pressure gauge
 - ~~i) Check oil pressure~~

New/proposed change

DROP – 4.3.1 – Minor re-numbering

7) Effects of high center of gravity on centrifugal force

a) Curves

i) Skidding

ii) Overturning

iii) Plowing/pushing

7) Effects of high center of gravity on centrifugal force

~~a) Curves~~

a) Skidding

b) Overturning

c) Plowing/pushing

Current curriculum

New/proposed change

DROP – 4.3.1 – Minor edit

13) Weight and height limitations for both roads and bridges

a) Authority having jurisdiction

13) Weight and height limitations for both roads and bridges according to the Authority Having Jurisdiction (AHJ).

~~a) Authority having jurisdiction~~

Current curriculum

New/proposed change

DROP – 4.3.3 – minor edit/re-numbering

- 3) The effects of liquid surge
 - a) Newton's Three Laws of Motion
 - i) An object in motion tends to stay in motion unless acted upon by an outside force
 - (1) Weight transfer
 - (2) Greater stopping distance
 - (3) Overturning fire apparatus
 - ii) An object at rest tends to stay at rest unless acted upon by an outside force
 - (1) Acceleration/deceleration
 - (2) Outside curves
 - iii) For every action there is an equal and opposite reaction
 - (1) Braking
 - (2) Skidding

- 3) The effects of liquid surge (Newton's Three Laws of Motion)

- a) Newton's Three Laws of Motion

- a) An object in motion tends to stay in motion unless acted upon by an outside force

- i. Weight transfer
- ii. Greater stopping distance
- iii. Overturning fire apparatus

- b) An object at rest tends to stay at rest unless acted upon by an outside force

- i. Acceleration/deceleration
- ii. Outside curves

- c) For every action there is an equal and opposite reaction

- i. Braking
- ii. Skidding

Current curriculum

New/proposed change

DROP – 4.3.6 – minor edit/re-numbering

- 1) The effects on vehicle control of liquid surge
 - a) Newton's Three Laws of Motion
 - i.) An object in motion tends to stay in motion unless acted upon by an outside force
 - (1) Weight transfer
 - (2) Greater stopping distance
 - (3) Overturning fire apparatus
 - ii) An object at rest tends to stay at rest unless acted upon by an outside force
 - (1) Acceleration/deceleration
 - (2) Outside curves
 - iii) For every action there is an equal and opposite reaction
 - (1) Braking
 - (2) Skidding

- 1) The effects on vehicle control of liquid surge
(Newton's Three Laws of Motion)
 - ~~a) Newton's Three Laws of Motion~~
 - a) An object in motion tends to stay in motion unless acted upon by an outside force
 - i. Weight transfer
 - ii. Greater stopping distance
 - iii. Overturning fire apparatus
 - b) An object at rest tends to stay at rest unless acted upon by an outside force
 - i. Acceleration/deceleration
 - ii. Outside curves
 - c) For every action there is an equal and opposite reaction
 - i. Braking
 - ii. Skidding

Current curriculum

New/proposed change

DROP – 4.3.6 – minor edit/re-numbering

7) Effects of high center of gravity on centrifugal force

a) Curves

i) Skidding

ii) Overturning

iii) Plowing/Pushing

7) Effects of high center of gravity on centrifugal force

~~a) Curves~~

a) Skidding

b) Overturning

c) Plowing/Pushing

Current curriculum

New/proposed change

DROP – 4.3.6 – minor edit/re-numbering

- 9) Principles of skid avoidance
 - a) Influencing factors
 - i) Driver error
 - (1) Driving too fast for road conditions
 - (2) Apparatus weight shifts
 - (3) Failure to anticipate obstacles
 - (4) Improper use of auxiliary braking devices
 - (5) Improper maintenance of tire pressure
 - (6) Tread depth
 - ii) Environmental
 - (1) Rain
 - (2) Snow
 - (3) Ice
 - (4) Fog
 - (5) Wind
 - iii) Skid recovery
 - (1) Steer into the skid
 - (2) Accelerate or decelerate
 - (3) Do not push the clutch pedal if equipped

- 9) Principles of skid avoidance
 - ~~a) Influencing factors~~
 - ~~a) Driver error~~
 - ~~i. Driving too fast for road conditions~~
 - ~~ii. Apparatus weight shifts~~
 - ~~iii. Failure to anticipate obstacles~~
 - ~~iv. Improper use of auxiliary braking devices~~
 - ~~v. Improper maintenance of tire pressure~~
 - ~~vi. Tread depth~~
 - ~~b) Environmental~~
 - ~~i. Rain~~
 - ~~ii. Snow~~
 - ~~iii. Ice~~
 - ~~iv. Fog~~
 - ~~v. Wind~~
 - ~~c) Skid recovery~~
 - ~~i. Steer into the skid~~
 - ~~ii. Accelerate or decelerate~~
 - ~~iii. Do not push the clutch pedal if equipped~~

Current curriculum

New/proposed change

DROP – 4.3.6 – minor edit

- 14) Weight and height limitations for both roads and bridges
- a) Authority having jurisdiction

Current curriculum

- 14) Weight and height limitations for both roads and bridges (AHJ)
- ~~a) Authority having jurisdiction~~

New/proposed change

DROP – 4.3.7 – minor edit

- 1) Manufacturer's specifications and operating procedures
 - a) Authority having jurisdiction

- 2) Policies and procedures of the jurisdiction
 - a) Authority having jurisdiction

- 1) Manufacturer's specifications and operating procedures (AHJ)
~~a) Authority having jurisdiction~~

- 2) Policies and procedures of the jurisdiction (AHJ)
~~a) Authority having jurisdiction~~

Current curriculum

New/proposed change

DROP – 5.1.1 – minor edit/re-numbering

5.1.1, 3), b), ii)...

(1) Transfer valve operation

(a) Series (Pressure)

(b) Parallel (Volume)

5.1.1, 3), b), ii. ...

~~(1) Transfer valve operation~~

a. Series (Pressure)

b. Parallel (Volume)

Current curriculum

New/proposed change

DROP – 5.2.1 – minor edit

5.2.1, 2), ...

b) Transfer

i) Electronic

(1) Override

ii) Manual

iii) Manufacturer's recommendations

5.2.1, 2), ...

b) Transfer valve

i. Electronic (to include override procedures)

~~1. Override~~

ii. Manual

iii. Manufacturer's recommendations

Current curriculum

New/proposed change

FIRE OFFICER I

Fire Officer I

- ◎ The new curriculum corresponds to NFPA 1021, *Fire Officer Professional Qualifications*, updated in 2008.
- ◎ Changes to the curriculum include:
 - Major changes
 - changes to the NFPA standard
 - changes to the content of the curriculum
 - inclusion of the “Requisite Skills” sections from the NFPA standard
 - Minor changes
 - grammatical changes/edits
 - re-numbering of the outline without any change to the content

Fire Officer I

Major Changes

Fire Officer I - Changes to the standard – 4.2.1, 4.2.4, 4.2.6, 4.3

(4.2.1) Assign tasks or responsibilities to unit members, given an assignment at an emergency operation incident, so that the instructions are complete, clear, and concise; safety considerations are addressed; and the desired outcomes are conveyed.

(4.2.4) Requisite Knowledge: The signs and symptoms of member-related problems, causes of stress in emergency services personnel, and adverse effects of stress on the performance of emergency service personnel, and awareness of AHJ member assistance policies and procedures.

(4.2.6) Coordinate the completion of assigned tasks and projects by members, given a list of projects and tasks and the job requirements of subordinates, so that the assignments are prioritized, a plan for the completion of each assignment is developed, and members are assigned to specific tasks and both supervised during and held accountable for the completion of the assignments.

(4.3) Community and Government Relations

This duty involves dealing with inquiries of the community and projecting communicating the role, image, and mission of the department to the public and delivering safety, injury, and fire prevention education programs, according to the following job performance requirements.

Fire Officer I - Changes to the standard – 4.3.1, 4.4.3, 4.5

(4.3.1) Requisite Knowledge: Community demographics and service organizations, as well as verbal and nonverbal communication, and an understanding of the role and mission of the department.

(4.4.3) Prepare a budget (~~purchase~~) request, given a need and budget (~~purchase~~) forms, so that the request is in the proper format and is supported with data.

(4.5) Inspection and Investigation

This duty involves conducting inspections to identify hazards and address violations, performing a fire investigation to determine preliminary cause, securing the incident scene, and preserving evidence, according to the following job performance requirements.

Fire Officer I - Changes to the standard – 4.7, 4.7.2

(4.7) Health and Safety

This duty involves integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene, including the donning of appropriate levels of personal protective equipment to ensure a work environment that is in accordance with health and safety plans for all assigned members, according to the following job performance requirements.

(4.7.2) Conduct an initial accident investigation, given an incident and investigation forms, so that the incident is documented and reports are processed in accordance with policies and procedures of the AHJ.

Fire Officer I - Changes to the standard – New Additions

The following sections of NFPA 1021 are brand new in the 2008 Edition:

- 4.4.4 – Organizational Structure
- 4.4.5 – Records Management Systems
- 4.5.1 – Fire Inspection Procedures
- 4.5.2 – Construction, Alarm, Detection and Suppression Features
- 4.7.3 – Fire Service Safety & Wellness

Fire Officer I - Changes to the standard – Other

- Section 4.5.2 from the 2003 Edition of NFPA 1021 is now Section 4.5.3 in the 2008 Edition.
- Section 4.6.1 from the 2003 Edition was deleted.
- Section 4.6.2 from the 2003 Edition is now 4.6.1 in the 2008 Edition.
- Section 4.6.3 from the 2003 Edition is now 4.6.2 in the 2008 Edition.
- Section 4.6.4 from the 2003 Edition is now 4.6.3 in the 2008 Edition.

Fire Officer I - Changes to the standard – Other

The Curriculum and Testing Committee suggests that the “Requisite Skills” sections of NFPA 1021 be added to the curriculum. These were not included in the current Fire Officer I curriculum.

Example:

(Section 4.2.1 – see p. 4 of the new curriculum document)

Requisite Skills: The ability to condense instructions for frequently assigned unit tasks based on training and standard operating procedures.

Fire Officer I – Changes to content: additions

(4.2.4)

4) Awareness of AHJ member assistance policies and procedures

(4.3.1)

3) An understanding of the role and mission of the department

Fire Officer I - Changes to content: 4.4.3

2) Revenue sources

- a) Operating Budget (e.g. program, line item)

Current curriculum

2) Revenue sources

- ~~a) Operating Budget (e.g. program, line item)~~

a) Taxes

b) Trust funds

c) Enterprise funds

d) Grants/gifts

e) Restricted funds

New/proposed change

Fire Officer I - Changes to content: 4.6.1

- 3) Fire behavior
 - a) Basic fire chemistry/science

Current curriculum

- 3) Fire behavior
 - ~~a) Basic fire chemistry/science~~
 - a) Fire load
 - b) Fire classifications (A, B, C, D, K)
 - c) Phase of fire
 - d) Percentage involvement

New/proposed change

Fire Officer I - Changes to content: 4.6.3

- 5) Basic fuel loading
 - a) Based on hazard class
- 6) Fire growth and development
 - a) Basic fire chemistry/science

- 5) Basic fuel loading
 - a) ~~Based on h~~Hazard class of material
 - b) Quantity of material
 - c) Location/distribution of material
- 6) Fire growth and development
 - a) Basic fire chemistry/science
 - a) Phase of fire
 - b) External growth factors (e.g., weather, loss of water supply, incendiary, etc.)

Current curriculum

New/proposed change

Fire Officer I

Minor Changes

Fire Officer I – Minor edits – Opening description

- Uses human resources to accomplish assignments in accordance with safety plans in an efficient manner, **and** evaluates member task performance, **and** supervises personnel during emergency, and non-emergency work periods
- Deals with inquiries from the community, projects the role of the department to the public, **and** delivers safety, injury prevention and fire prevention education programs
- Performs general administrative functions and implements departmental policies and procedures at the unit/company level
- Performs a fire investigation to determine preliminary cause, secures the incident scene, and preserves evidence
- Supervises emergency operations, conducts pre-incident planning, and deploys assigned resources in accordance with the local emergency plan
- Integrates safety plans, policies, and procedures into the daily activities as well as on the emergency scene, including the donning of appropriate levels of personal protective equipment to ensure a safe work environment, in accordance with health and safety plans, for all assigned members

Fire Officer I – Minor edits – 4.2.1, 4.3.1, 4.4.2, 4.4.3, 4.6.1

(4.2.1)

Verbal communications during emergency ~~situations~~ incidents

(4.3.1, 1), a)

iii) Ethnicity

iv) ~~Sex~~ Gender

(4.4.2)

1) Administrative policies and procedures – AHJ

a) ~~Authority having jurisdiction~~

(4.4.3)

1) Policies and procedures – AHJ

a) ~~Authority having jurisdiction~~

3) Budget process – AHJ

a) ~~Authority having jurisdiction~~

(4.6.1)

2) Standard operating procedures for emergency operations – AHJ

Fire Officer I – Minor edits – 4.6.2, 4.6.3, 4.7.2

(4.6.2)

- 1) Standard operating procedures – AHJ
 - a) ~~Authority having jurisdiction~~
- 2) Resources available for the mitigation of fire and other emergency incidents
 - a) Single company
 - b) One alarm
 - c) Multiple alarm
 - d) Mutual/~~automatic~~ aid
 - e) Automatic aid

(4.6.3)

- 7) Departmental procedures relating to dispatch response tactics and operations – AHJ
 - a) ~~Authority having jurisdiction~~
- 8) Customer service – AHJ
 - a) ~~Authority having jurisdiction~~

(4.7.2)

- 2) Safety policies and procedures – AHJ
 - a) ~~Authority having jurisdiction~~

Fire Officer I – Minor re-numbering – 4.2.3

- 1) Verbal communication techniques to facilitate learning
 - a) Communication model
 - i) Sender
 - ii) Message
 - iii) Instructional medium
 - iv) Receiver
 - v) Feedback
 - vi) Environment
 - b) Factors in effective delivery
 - i) Voice inflection
 - ii) Eye contact
 - iii) Common/appropriate terminology
 - iv) Appropriate terminology
 - v) Body language
 - vi) Facial expressions
 - vii) Tone of voice
 - viii) Appropriate appearance
 - c) Basic rules of effective spoken communication
 - i) Be adaptive to audience
 - ii) Have a specific purpose
 - iii) Be clear and concise
 - iv) Be focused

~~1) Verbal communication techniques to facilitate learning~~

- 1) Communication model
 - a) Sender
 - b) Message
 - c) Instructional medium
 - d) Receiver
 - e) Feedback
 - f) Environment
- 2) Factors in effective delivery
 - a) Voice inflection
 - b) Eye contact
 - c) Common/appropriate terminology
 - d) Appropriate terminology
 - e) Body language
 - f) Facial expressions
 - g) Tone of voice
 - h) Appropriate appearance
- 3) Basic rules of effective spoken communication
 - a) Be adaptive to audience
 - b) Have a specific purpose
 - c) Be clear and concise
 - d) Be focused

Current curriculum

New/proposed change

Fire Officer I – Minor re-numbering – 4.2.5

- 1) Human resource policies and procedures
 - a) Federal
 - b) State
 - c) Local AHJ (e.g. Employee Assistance Program)
 - d) Departmental (e.g. Wellness/fitness program)

~~1) Human resource policies and procedures~~

1) Laws

- a) Federal
- b) State

2) Local AHJ (e.g. Employee Assistance Program)

3) Departmental (e.g. Wellness/fitness program)

Current curriculum

New/proposed change

Fire Officer I – Minor re-numbering – 4.7.1

2) Safety policies and procedures

a) Applicable safety regulations or policies may come from the following sources:

i) Federal (e.g. Occupational Safety and Health

Administration (OSHA))

ii) State (e.g. Texas Commission on Fire Protection (TCFP))

iii) Local (e.g. standard operating policies)

iv) National Consensus Standards (e.g. National Fire Protection Association (NFPA))

2) Safety policies and procedures

~~a) Applicable safety regulations or policies may come from the following sources:~~

a) Federal (e.g. Occupational Safety and Health Administration (OSHA))

b) State (e.g. Texas Commission on Fire Protection (TCFP))

c) Local (e.g. standard operating policies)

d) National Consensus Standards (e.g. National Fire Protection Association (NFPA))

Current curriculum

New/proposed change

FIRE OFFICER II

Fire Officer II

- ◎ The new curriculum corresponds to NFPA 1021, *Fire Officer Professional Qualifications*, updated in 2008.
- ◎ Changes to the curriculum include:
 - Major changes
 - changes to the NFPA standard
 - changes to the content of the curriculum
 - inclusion of the “Requisite Skills” sections from the NFPA standard
 - Minor changes
 - grammatical changes/edits
 - re-numbering of the outline without any change to the content

Fire Officer II

Major Changes

Fire Officer II - Changes to the standard – new verbiage in 5.1, 5.1.1., and 5.3

(5.1) For qualification at Level II, the Fire Officer I shall meet the requirements of Fire Instructor I as defined in NFPA 1041 and the job performance requirements defined in Sections 5.2 through 5.7 of this standard.

(5.1.1) General Prerequisite Knowledge

The organization of local government; enabling and regulatory legislation and the law-making process at the local, state/provincial, and federal levels; and the functions of other bureaus, divisions, agencies, and organizations and their roles and responsibilities that relate to the fire service.

- ~~1) The organization of local government~~
- ~~2) Enabling and regulatory legislation and the law making process at the local, state, and federal levels~~
- ~~3) The functions of other bureaus, divisions, agencies, and organizations and their roles and responsibilities that relate to the fire service~~

(5.3) Community and Government Relations

This duty involves dealing with inquiries of allied organizations in the community and projecting the role, mission, and image of the department to other organizations with similar goals and missions for the purpose of establishing strategic partnerships and delivering safety, injury, and fire prevention education programs, according to the following job performance requirements.

Fire Officer II - Changes to the standard – 5.5, 5.5.1, 5.5.2, 5.6.1

(5.5) ~~Inspection and Investigation~~

This duty involves ~~conducting inspections to identify hazards and address violations and~~ conducting fire investigations to determine origin and preliminary cause, according to the following job performance requirements.

(5.5.1) This entire section of the 2003 standard has been deleted from the 2008 edition.

(5.5.2) This section of the 2003 standard becomes 5.5.1 in the 2008 edition.

(5.6.1) Produce operational plans, given an emergency incident requiring multi-unit operations, the current edition of NFPA 1600, and AHJ-approved safety procedures, so that required resources and their assignments are obtained and plans are carried out in compliance with NFPA 1600 and approved safety procedures resulting in the mitigation of the incident.

Fire Officer II - Changes to the standard – brand new sections

- ⑤ 5.2.3 – Create a Professional Development Guide
- ⑤ 5.3.1 – Agency Mission and Goals, External Agency Relationships
- ⑤ 5.4.6 – Planning and Implementing Change
- ⑤ 5.6.3 – Analyzing Data

Fire Officer II - Changes to content- 5.4.2

- 1) The supplies and equipment necessary for ongoing or new projects (AHJ)
- 2) Repairs to existing facilities
 - a) Structural
 - b) Remodel
 - c) Additions
- 3) New equipment
 - a) Repair
 - b) Replace
 - c) Upgrade
- 4) Apparatus maintenance
 - a) Preventative
 - b) Repair
 - c) Replace
 - d) Upgrade
- 5) Personnel costs
 - a) Salary
 - i. Straight time
 - ii. Compensatory time
 - iii. Overtime
 - b) Benefits (AHJ)
- 6) Appropriate budgeting system (AHJ)

Fire Officer II - Changes to content- 5.5.1 (which is 5.5.2 in the current curriculum), 5.6.2

(5.5.1)

- 3) Basic cause and origin determination
 - a) Basic fire chemistry/sciences
 - b) Area of origin
 - c) Fire patterns
 - d) Legal considerations

(5.6.2)

- 5) Basic fuel loading
 - a) Based on hazard class
 - b) Occupancy type
- 6) Fire growth and development
 - a) Basic fire chemistry/science
 - b) Fire spread

Fire Officer II - Changes to content- 5.7.1

1) The causes of unsafe acts, ~~health exposures, or conditions that result in accidents, injuries, occupational illnesses, or deaths.~~

a) Human factors

- i. Improper attitude
- ii. Lack of knowledge or skill
- iii. Physically/mentally unsuited

b) Environmental factors

- i. Weather
- ii. Hazardous
- iii. Lighting

c) Equipment factors

- i. Malfunction
- ii. Improper usage

d) Review member's accident history

2) Health exposures

a) Human factors

- i. Improper attitude
- ii. Lack of knowledge or skill
- iii. Physically/mentally unsuited

b) Environmental factors

- i. Weather
- ii. Hazardous
- iii. Lighting

c) Equipment factors

- i. Malfunction
- ii. Improper usage

d) Review member's health exposure history

3) Conditions that result in accidents, injuries, occupational illness, or deaths

a) Unsafe acts

- i. Skill based errors
- ii. Memory failure
- iii. Technique failure

b) Preconditions to unsafe acts

- i. Adverse mental states
- ii. Psychological states
- iii. Physical limitations

c) Unsafe supervision

- i. Inadequate supervision
- ii. Inappropriate operations
- iii. Failure to correct known problems
- iv. Supervisory violations

Fire Officer II - Changes to the standard – Other

The Curriculum and Testing Committee suggests that the “Requisite Skills” sections of NFPA 1021 be added to the curriculum. These were not included in the current Fire Officer II curriculum.

Example:

(Section 5.2.1 – see p. 3 of the new curriculum document)

Requisite Skills: The ability to communicate orally and in writing, to solve problems, to increase team work, and to counsel members.

Fire Officer II

Minor Changes

Fire Officer II – Minor edits – 5.1.2, 5.2.1, 5.4.3

(5.1.2) General Prerequisite Skills

Intergovernmental and interagency cooperation

~~1) Intergovernmental and interagency cooperation~~

(5.2.1)

- 1) Human resource policies and procedures
 - a) Federal (e.g. Americans with Disabilities Act)
 - b) State (e.g. Local Government Code)
 - c) Local/Authority Having Jurisdiction (AHJ) (e.g. city policies)

(5.4.3)

- 1) Purchasing laws
 - a) ~~Authority having jurisdiction~~ Local
 - b) State laws
 - c) Federal
- 2) Policies and procedures (AHJ)
 - a) ~~Authority having jurisdiction~~

Fire Officer II – Minor edits/re-numbering – 5.4.4, 5.4.5, 5.5.1

(5.4.4)

- 1) Policies and procedures (AHJ)
 - a) ~~Authority having jurisdiction~~

(5.4.5)

- 1) ~~The data processing system~~
 - 1) a) Word Processing software
 - 2) b) Spreadsheet software
 - 3) c) Presentation software
 - 4) d) Database software

(5.5.1 – which used to be 5.5.2 in the 2003 standard)

- 5) Documentation of preliminary fire investigative procedures
 - a) ~~Authority having jurisdiction~~ AHJ
 - b) National Fire Incident Reporting System (NFIRS)
 - c) NFPA 921 Guide for Fire and Explosion Investigations

Fire Officer II – Minor edits/re-numbering – 5.6.1, 5.6.2

(5.6.1)

- 1) Standard operating procedures (AHJ)
 - a) ~~Authority having jurisdiction~~
- 2) National, state/provincial, and local information resources available for the mitigation of emergency incidents
- 3) An incident management system
 - a) National Incident Management System (NIMS)
 - b) ~~+~~ Incident Command System
- 4) A personnel accountability system (AHJ)

(5.6.2)

- 7) Departmental procedures relating to dispatch response tactics and operations (AHJ)
 - a) ~~Authority having jurisdiction~~
- 8) Customer service (AHJ)
 - a) ~~Authority having jurisdiction~~

Inspector I
Inspector II
Plans Examiner

INSPECTOR

Inspector I, Inspector II, Plans Examiner

- ◎ The new curriculum corresponds to NFPA 1031, *Standard for Professional Qualifications for Fire Inspector and Plan Examiner*, updated in 2008.
- ◎ Changes to the curriculum include:
 - Major changes
 - changes to the NFPA standard
 - changes to the content of the curriculum
 - inclusion of the “Requisite Skills” sections from the NFPA standard
 - Minor changes
 - grammatical changes/edits
 - re-numbering of the outline without any change to the content

Inspector I

Major Changes

Inspector I - Changes to the standard – new verbiage in 4.2.1, 4.2.2, 4.2.3, 4.3.1

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

(4.2.2) 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.

(4.2.3) 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.

(4.3.1) Identify the occupancy classification of a single-use occupancy, given a description of the occupancy and its use, so that ~~an accurate~~ the classification is made according to the applicable codes and standards.

Inspector I - Changes to the standard – new verbiage in 4.3.3, 4.3.4, 4.3.5, 4.3.8

(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.

(4.3.4) 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 **classified identified** and recorded in accordance with the applicable codes and standards and the policies of the jurisdiction.

(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.

(4.3.8) 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 **all** deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.

Inspector I - Changes to the standard – new verbiage in 4.3.9, 4.3.10, 4.3.11, A4.3.11

(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.

(4.3.10) 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 **all** deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.

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

(A4.3.11) Emergency access includes emergency vehicle access roadways, pathway access from roadways to the building, key box facilities, gate access, and door access into structures. The Fire Inspector I is expected to be able to find and correct deficiencies and obstructions to fire and emergency personnel access into buildings, such as blocked roadways, missing or outdated keys in key boxes, locked gates, and inaccessible doors. Actual response operations, safe zones, and vehicle size, width, and turning capabilities should be evaluated for a given site. For sites with topographical limitations, such as a riverfront or mountainside setting, alternate methods to provide access should be evaluated based upon the requirements of the responding personnel to approach and address incidents within the site.

Inspector I - Changes to the standard – new verbiage in 4.3.12, 4.3.13, 4.3.14, 4.3.16

(4.3.12) 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 **all** deficiencies are identified, documented, in accordance with the applicable codes and standards and the policies of the jurisdiction.

(4.3.13) 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 **all** deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.

(4.3.14) 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.

(4.3.16) 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 **all** deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.

Inspector I - Changes to the content – A4.2.5, 4.3.1

~~(A4.2.5) The fire inspector should avoid enforcement of codes or standards that have not been legally adopted by the jurisdiction. The fire inspector should not retroactively apply codes and standards unless legally required by the jurisdiction.~~

~~(4.3.1)~~

~~1. Occupancy classification types~~

- ~~a. Building code use~~
- ~~b. Use groups~~
- ~~c. Incidental use area~~
- ~~d. Accessory use area~~

~~2. Applicable codes, regulations and standards adopted by the jurisdiction~~

- ~~a. International Building Code~~
- ~~b. National Fire Protection Association~~

Inspector I - Changes to the content – 4.3.7, 4.3.8

(4.3.7)

1. A basic understanding of portable fire extinguishers, ~~including their components and placements~~

a. Components

b. Placement

(4.3.8)

7. Dust ~~collection~~ hazard processes

8. Kitchen hood and ducts

9. Dip tanks

10. ~~Spray painting~~ Flammable finishing operations

11. Flammable and combustible liquids storage, dispensing and use

12. Welding and thermal cutting operations

13. Dipping and coating operations

14. Quenching operations

15. Dry cleaning operations

16. Asphalt and tar kettles

17. Semiconductor/Electronics manufacturing

Inspector I - Changes to the content – 4.3.10

(4.3.10)

4. Emergency planning and preparation

- ~~a. Fire drills~~
- ~~b. Announcements~~
- ~~c. Evacuation plans~~
- ~~d. Fire department access~~
- ~~e. Response personnel~~
- ~~f. Standby personnel~~

(4.3.13)

9. Hazardous Materials Awareness Level Personnel ((NFPA 472, *Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents* section 4.2 – Analyzing the Incident)

(All content under number 9 of 4.3.13 is new to the curriculum.)

Inspector I - Changes to the content – 4.3.15, 401-9.1

(4.3.15)

6. Life safety systems

7. 6. Decorations

8. 7. Decorative materials

9. 8. Furnishings

10. 9. Safe housekeeping practices

~~(401 – 9.1) Hazardous Materials~~

All content from section 9.1 was deleted.

Inspector I - Changes to the standard – Other

The Curriculum and Testing Committee suggests that the “Requisite Skills” sections of NFPA 1031 be added to the curriculum. These were not included in the current Inspector I curriculum.

Example:

(Section 4.2.1)

Requisite Skills: The ability to conduct a field inspection, apply codes and standards, and communicate orally and in writing.

Inspector I

Minor Changes

Inspector I – Minor edits/re-numbering – 4.2.5, 4.3.2, 4.3.3

(4.2.5)

~~1) Applicable codes and standards adopted by the jurisdiction~~

~~— a) Applicability of the code~~

1. Applicable codes adopted by the jurisdiction

2. Applicable standards adopted by the jurisdiction

(4.3.2)

2. Applicable codes, regulations, and standards adopted by the jurisdiction

a. International Building Code (IBC)

b. National Fire Protection Association (NFPA)

c. Other regulatory agencies

5. Occupant load factors – function

a. Function

(4.3.3)

1. Applicable codes and standards adopted by the jurisdiction related to means of egress **elements**

4., a.

ix. Delayed egress (Access controlled)

~~1) Access-controlled~~

Inspector I – Minor edits/re-numbering – 4.3.12, 4.3.13, 4.3.14

(4.3.12)

7. Applicable codes and standards (Incidental or exempt amounts allowed)
~~a. Incidental or exempt amounts allowed~~

(4.3.13)

8. Applicable codes and standards (Incidental or exempt amounts allowed)
~~a. Incidental or exempt amounts allowed~~

(4.3.14)

2. Flame spread and smoke development ratings of contents
3. Smoke development ratings of contents
4. ~~3.~~ Interior finishes
5. ~~4.~~ Building construction elements
6. ~~5.~~ Decorations
7. ~~6.~~ Decorative materials
8. ~~7.~~ Furnishings
9. ~~8.~~ Safe housekeeping practices
~~9. Applicable codes and standards~~

Inspector II

Major Changes

Inspector II - Changes to the standard – 5.2.2, 5.2.3, 5.2.4, 5.3.3, A5.3.3

(5.2.2) 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 and procedures of the jurisdiction.

(5.2.3) 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.

(5.2.4) Recommend modifications to the adopted codes and standards of the jurisdiction, given a fire safety issue, so that the proposed ~~codes and standards are correctly written and~~ modifications address the problem, need, or deficiency.

(5.3.3) Evaluate a building's area, height, occupancy classification, and construction type, given an approved set of plans, ~~a description of the building, or observations of~~ and construction features, so that ~~they are~~ it is verified that the building is in accordance with applicable codes and standards.

(A5.3.3) The Fire Inspector II should be able to assess proper construction type based on new construction or changes to a building that have occurred since the original occupancy of the building. Examples of such changes may include renovations or additions, changes in storage commodity, changes in occupancy classification, and similar changes that might occur throughout the life of a building.

Inspector II - Changes to the standard – 5.3.4, 5.3.7, A5.3.7

(5.3.4) Evaluate fire protection systems and equipment provided for ~~the protection of~~ life safety, ~~a building or a facility~~ 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. Evaluate installation for compliance with applicable codes and standards so that deficiencies are identified, documented, and reported in accordance with the policies of the jurisdiction.

(5.3.7) Evaluate emergency planning and preparedness procedures, given ~~copies of~~ existing or proposed plans and procedures and applicable codes and standards, ~~to determine their applicability to the facility and their compliance with codes and standards~~ so that compliance is determined.

(A5.3.7) Emergency planning might include components for building evacuation, sheltering of occupants in place, and securing occupants from outside threats.

Inspector II - Changes to the standard – 5.3.8, 5.3.9, 5.3.10

(5.3.8) 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 ~~applicable codes and standards are addressed and all~~ deficiencies are identified, documented, and reported in accordance with the applicable codes and standards and the policies of the jurisdiction.

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

(5.3.10) Determine fire growth potential in a building or space, given field observations or plans, so that the contents, interior finish, and construction elements ~~can be~~ are evaluated for compliance ~~with applicable codes and standards,~~ and all deficiencies are identified, documented, and corrected in accordance with the applicable codes and standards and the policies of the jurisdiction.

Inspector II - Changes to the standard and content of curriculum – 5.3.11

Note: All of 5.3.11 from the 2003 version has been deleted. The new standard for 5.3.11 (and A5.3.11) and it's associated content was section 5.3.12 in the 2003 version. Following are some changes to the content, recommended by the committee:

(5.3.11)

1. Applicable codes and standards for installation and testing of fire protection systems
 - a. Fire sprinklers (e.g. NFPA 13)
 - b. Standpipe systems (e.g. NFPA 14)
 - c. Fire alarm systems (e.g. NFPA 72)
 - d. Fire pumps (e.g. NFPA 20)
 - e. Means of egress (e.g. International Building Code or NFPA 101)
 - f. Smoke control (e.g. International Building Code or NFPA 92A)
 - g. Emergency and/or standby power requirements (e.g. International Building Code and applicable electrical code(s))
 - h. Heating Ventilation Air Conditioning (HVAC) (e.g. International Mechanical Code, NFPA 90A)
 - i. Elevator and moving pedestrian equipment (e.g. International Building Code)
2. Means of egress
3. Building services equipment
4. ~~(All of number 4 was deleted)~~

Inspector II - Changes to the standard – 5.3.12, 5.4.1, 5.4.2, 5.4.3

(5.3.12) All of 5.3.12 and A 5.3.12 is new.

(5.4.1) Classify the occupancy **type**, given a set of plans, specifications, and a description of a building, so that the classification is made **according to in accordance with the** applicable codes and standards **and the policies of the jurisdiction.**

(5.4.2) 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.**

(5.4.3) 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.

Inspector II - Changes to the standard and content of curriculum – 5.4.4, 5.4.5, 5.4.6

(5.4.4) – All of 5.4.4 is new.

(5.4.5) – 5.4.4 from the 2003 standard is now 5.4.5 in the 2008 standard. The following are changes to its content by the committee:

1. Applicable codes and standards adopted by the jurisdiction (~~e.g. International Building and Fire Code~~)
2. The Identification of standard symbols used in plans
3. Field verification practices

Numbers 4 through number 44 have all been ~~deleted~~.

(5.4.6) – 5.4.5 from the 2003 standard is now 5.4.6 in the 2008 standard. The following are changes to its content by the committee:

2. Evaluation of methods of construction and assemblies for fire rating (~~e.g. applicable Underwriter's Laboratory Fire Resistance Directory~~)
3. Analysis of test results
4. Manufacturer's specifications

Numbers 5 through 23 have all been ~~deleted~~.

Inspector II - Changes to the content – 5.2.1, 5.2.2, 5.3.1

(5.2.1)

2. Applicable codes, ~~and~~ standards, policies, and procedures of the jurisdiction
- ~~3. Policies and procedures of the jurisdiction~~

(5.2.2)

2. ~~Applicable~~ Code ~~and standard~~ requirements of the jurisdiction

(5.3.1)

1. How to calculate occupant loads for an occupancy ~~and for building use~~
2. How to calculate occupant loads for building use
- ~~3. 2.~~ Code requirements ~~presented by various occupancies~~
 - a. International Building Code (IBC)
 - b. National Fire Protection Association (NFPA)
- ~~4. 3.~~ Regulations presented by various occupancies
 - a. ~~Other regulatory agencies~~ Local regulatory agencies
 - b. Other regulatory agencies
- ~~5. 4.~~ Operational features presented by various occupancies
- ~~6. 5.~~ Fire hazards presented by various occupancies

Inspector II - Changes to the content – 5.3.2, 5.3.3

(5.3.2)

1. Occupancy classification **types presented by various occupancies**
 - a. Building code use
 - b. Use groups
 - c. Incidental use area
 - d. Accessory use area
2. Applicable codes, **regulations**, and standards **adopted by the jurisdiction** presented by various occupancies
 - a. ~~International Building Code~~ **IBC**
 - b. ~~National Fire Protection Association~~ **NFPA**
3. Operational features **presented by various occupancies**

(5.3.3)

2. Evaluation methods of construction and **assemblies for fire rating**
3. **Assemblies for fire rating**
4. ~~3.~~ Analysis of test results
5. ~~4.~~ Manufacturer's specifications

Inspector II - Changes to the content – 5.3.4, 5.3.6

(5.3.4)

1. Applicable codes and standards for fire protection systems
 - a. ~~Performance based fire safety~~
 - b. ~~Documentation of performance based analysis and design process~~
2. Basic physical science as it relates to fire behavior and fire suppression
3. Implications and hazards associated with system operation
4. Installation techniques
5. Acceptance inspection, ~~testing and reports of maintenance of completed installations~~
6. Testing
7. Reports of maintenance of completed installations
8. ~~6.~~ Use and function of various systems

(5.3.6)

6. Additional reference materials related to protection of hazardous processes and code enforcement.
 - a. ~~Property loss prevention guides (e.g. Factory Mutual Global)~~
 - b. ~~Model code inspection guides~~
 - c. ~~Model code interpretation~~
7. ~~Milling operations~~
8. ~~The manufacture, storage, and use of hazardous chemicals~~
9. ~~The manufacture, storage, and use of explosives~~

Inspector II - Changes to the content – 5.3.7, 5.3.9

(5.3.7)

3. Roles of agencies and individuals in implementation and development of emergency **evacuation** plans

(5.3.9)

1. Hazardous materials properties and hazards
2. Material safety data sheet (**MSDS**)
3. Safe handling practices
4. Applicable codes and standards
 - a. Quantity
 - b. Limits
5. Fire protection systems **and equipment approved for the material**
- 6. Equipment approved for the material**
7. **6.** Fire behavior
8. **7.** Safety procedures
9. **8.** Chemical reactions
10. **9.** Storage compatibility

Inspector II - Changes to the content – 5.3.10,

(5.3.10)

1. Basic fire behavior
2. Flame spread ~~and smoke development~~ ratings of contents
3. Smoke development ratings of contents
4. ~~3.~~ Interior finishes
5. ~~4.~~ Building construction elements
6. ~~5.~~ Decorations
7. ~~6.~~ Decorative materials
8. ~~7.~~ Furnishings
9. ~~8.~~ Safe housekeeping practices

(5.4.1)

1. Occupancy classification of various occupancies
2. Applicable codes and standards of various occupancies
3. Regulations for various occupancies (e.g. applicable state licensing rules, Texas Health and Safety Code)
4. Operational features presented by various occupancies

Inspector II - Changes to the standard – Other

The Curriculum and Testing Committee suggests that the “Requisite Skills” sections of NFPA 1031 be added to the curriculum. These were not included in the current Inspector II curriculum.

Example:

(Section 5.2.1)

Requisite Skills: The application of the requisite knowledge.

Inspector II

Minor Changes

Inspector II – Minor edits – 5.3.5, 5.3.8, 5.4.2

(5.3.5)

Requisite Knowledge: Acceptable means of egress devices.

~~1. Acceptable means of egress devices~~

(5.3.8)

2. Material safety data sheet **(MSDS)**

(5.4.2)

2. Code requirements **(e.g. International Building and Fire Code)**

3. Regulations **(e.g. applicable state licensing rules, Texas Health and Safety Code)**

Plan Examiner

Major Changes

Plan Examiner - Changes to the standard – 7.2, 7.2.1, 7.2.2

(7.2) This duty involves the review of plans, preparation of correspondence and plan review reports, communication with fire inspectors and emergency response personnel, handling of complaints, maintenance of records, participation in legal proceedings, identification of when additional expertise is required, and ~~being familiar~~ familiarity with procedures used by the jurisdiction to evaluate alternative methods, according to the following job performance requirements.

(7.2.1) Prepare reports, given observations from a plan review, so that the report is clear and concise, and accurately reflects the findings of the plan review in accordance with applicable codes and standards and the policies and procedures of the jurisdiction.

(7.2.2) Facilitate the resolution of deficiencies identified during the plan review, given a submittal and the established practices 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 and alternative methods for compliance are identified.

Plan Examiner - Changes to the standard – 7.3.1, 7.3.2, 7.3.3, 7.3.5

(7.3.1) Identify the requirements for fire protection or a life safety system, given a set of plans, so that **all** deficiencies are identified, documented, and reported in accordance with the policies **and procedures** of the jurisdiction.

(7.3.2) Verify the ~~classification of the occupancy type~~ **occupancy classification**, given a set of plans, specifications, and a description of a building and its intended use, so that the classification is made ~~according to~~ **in accordance with the** applicable codes and standards and the policies of the jurisdiction.

(7.3.3) Verify the ~~classification of the~~ construction type, given a set of plans, including the ~~proposed~~ **occupancy classification** area, height, number of stories, and location, so that the ~~proposed~~ building is **classified** in accordance with applicable codes and standards and deficiencies are identified, documented, and reported.

(7.3.5) Verify that **adequate 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.

Plan Examiner - Changes to the standard – 7.3.6, 7.3.7, 7.3.8, 7.3.10

(7.3.6) Evaluate code compliance for required fire flow and hydrant location and spacing, given a plan, ~~required fire flow~~, codes and standards, and fire flow test results, so that hydrants are correctly located, required fire flow is determined, and **all** deficiencies are identified, documented, and reported in accordance with the policies and procedures of the jurisdiction.

(7.3.7) Evaluate ~~code compliance of~~ emergency vehicle access, given a plan, so that emergency access is provided in accordance with applicable codes and standards and **all** deficiencies are identified, documented, and reported in accordance with the policies of the jurisdiction.

(7.3.8) Recommend policies and procedures for the delivery of plan review services, given management objectives, so that plan reviews are ~~carried out~~ conducted in accordance with the policies of the jurisdiction and due process of the law is followed.

(7.3.10) 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 **all** deficiencies are identified, documented, and reported in accordance with the policies and procedures of the jurisdiction.

Plan Examiner - Changes to the content – 7.2.1, 7.3.2

(7.2.1)

3. Accepted practices, policies, and procedures of the jurisdiction
 - a. Plan review
 - b. Building and life safety components
 - c. Design, permitting and construction processes
 - d. Plans review organizations
 - e. Plans ~~submittal and processing~~

(7.3.2)

1. ~~Occupancy classification types~~ How to calculate occupant loads for an occupancy and for building use
2. ~~Applicable codes and standards~~ Code requirements presented by various occupancies
3. Regulations for various occupancies
 - a. Federal
 - b. Tribal
 - c. State
 - d. Local
4. Operational features presented by various occupancies
5. Fire hazards presented by various occupancies

Plan Examiner - Changes to the content – 7.3.3, 7.3.4

(7.3.3)

1. Types of construction **classification**
2. Fire related construction components
3. Typical building construction methods and materials
4. Code **and standard** requirements related to construction types

(7.3.4)

1. **How to** calculate occupant loads for an occupancy and for building use
2. Code requirements **presented by various occupancies**
3. Regulations **for various occupancies**
 - ~~a. Federal~~
 - ~~b. Tribal~~
 - ~~c. State~~
 - ~~d. Local~~
4. Operational features **presented by various occupancies**
5. Fire hazards presented by various occupancies

Plan Examiner - Changes to the content – 7.3.6

(7.3.6)

4. Characteristics of public and private water supply systems, ~~water meters, backflow prevention, and other devices that can impact on fire flow~~
5. Water meters, backflow prevention and other devices that can impact on fire flow
6. ~~5.~~ The effects of friction loss and elevation on water flow
7. ~~6.~~ Potential impact of state health regulations on fire flow
8. ~~7.~~ The applicable codes and standards related to fire flow in the jurisdiction

Plan Examiner - Changes to the standard – Other

The Curriculum and Testing Committee suggests that the “Requisite Skills” sections of NFPA 1031 be added to the curriculum. These were not included in the current Plan Examiner curriculum.

Example:

(Section 7.2.1)

Requisite Skills: The ability to conduct code-related research and write reports.

Plan Examiner

Minor Changes

(No minor changes to this section of the curriculum)