

Florida Bureau of Fire Standards and Training

Safety Officer Content Outline

NFPA 1521

HEALTH AND SAFETY OFFICER

- I. General (NFPA 4.1)..... (1%)**
 - A. A fire department HSO shall recuse himself/herself from any investigatory process where a conflict of interest exists. **(NFPA 4.1.2)**

- II. Risk Management (NFPA 4.2) (8%)**
 - A. Develop an organizational risk management plan that addresses the risks specified in Chapter 4 of NFPA 1500 **(NFPA 4.2.1)**
 - B. Manage an organizational risk management plan **(NFPA 4.2.2)**
 - C. Implement safety provisions of the organization's risk management plan into training and education programs **(NFPA 4.2.3)**
 - D. Develop an operational risk management plan given the requirements of Chapter 8 of NFPA 1500 **(NFPA 4.2.4)**
 - E. Develop a plan for the treatment and transport of an injured or ill member to a medical or health care facility **(NFPA 4.2.5)**

- III. Laws, Codes, and Standards (NFPA 4.3)..... (3%)**
 - A. Establish SOP/Gs for an occupational health and safety program **(NFPA 4.3.1)**
 - B. Assess and report the adequacy and effectiveness of compliance with occupational health and safety SOP/Gs **(NFPA 4.3.2)**

- IV. Training and Education (NFPA 4.4) (4%)**
 - A. Develop and distribute health and safety information for the education of fire department members **(NFPA 4.4.1)**
 - B. Implement the training and education of fire department members on the organization's health and safety procedures and NFPA 1500 **(NFPA 4.4.2)**
 - C. Develop a safety procedure for live fire training exercises **(NFPA 4.4.3)**

- V. Accident Prevention (NFPA 4.5)..... (5%)**
 - A. Manage a fire department accident prevention program **(NFPA 4.5.1)**
 - B. Implement training for safe work practices on emergency and nonemergency operations **(NFPA 4.5.2)**
 - C. Develop an emergency vehicle safety program **(NFPA 4.5.3)**
 - D. Conduct a periodic safety audit **(NFPA 4.5.4)**

- VI. Accident Investigation, Procedures, and Review (NFPA 4.6) (4%)**
 - A. Conduct a safety and health investigation **(NFPA 4.6.1)**
 - B. Develop a policy for reporting accident and injury investigations **(NFPA 4.6.2)**
 - C. Establish procedures for a health and safety component of a post-incident analysis **(NFPA 4.6.3)**
 - D. Coordinate the development of a corrective action plan **(NFPA 4.6.4)**

VII. Records Management and Data Analysis (NFPA 4.7)..... (5%)

- A. Manage the collection and analysis of data related to accidents, occupational deaths, injuries, illnesses, and exposures to infectious agents and communicable diseases **(NFPA 4.7.1)**
- B. Verify records are maintained regarding the periodic inspection and service testing of fire apparatus and equipment, inspection and service testing of protective clothing and protective equipment, and fire department facilities **(NFPA 4.7.2)**
- C. Maintain records of corrective actions taken to mitigate health and safety hazards or unsafe practices **(NFPA 4.7.3)**
- D. Develop a report on fire department accidents, occupational injuries, illnesses, deaths, and exposures **(NFPA 4.7.4)**

VIII. Apparatus and Equipment (NFPA 4.8)..... (6%)

- A. Recommend safety-related specifications for fire apparatus and fire equipment **(NFPA 4.8.1)**
- B. Recommend safety-related specifications for protective clothing and protective equipment **(NFPA 4.8.2)**
- C. Verify performance testing of fire apparatus and fire equipment is being conducted **(NFPA 4.8.3)**
- D. Verify the development of an annual evaluation plan for the organization's in-service fire and emergency vehicles, given the organization's emergency vehicles and current NFPA minimum vehicle safety standards, so that a plan to retire, refurbish, or replace them based on the requirements in NFPA 1911 **(NFPA 4.8.4)**

- E. Verify the development of an annual evaluation plan for the organization's in-service fire and emergency vehicles, given the organization's emergency vehicles and current NFPA minimum vehicle safety standards, so that a plan to retire, refurbish, or replace them based on the recommendations in Annex D NFPA 1901 **(NFPA 4.8.5)**
- F. Verify the development, implementation, and maintenance of a protective clothing and protective equipment program that provides for the selection, care, maintenance, storage, and periodic inspection and evaluation of all protective clothing and equipment **(NFPA 4.8.6)**

IX. Facility Inspection (NFPA 4.9) (3%)

- A. Develop a health and safety facility inspection SOP/G, process, and checklist for a fire department facility **(NFPA 4.9.1)**
- B. Conduct a health and safety inspection for a fire department facility **(NFPA 4.9.2)**

X. Health Maintenance (NFPA 4.10) (3%)

- A. Analyze the fire department health maintenance program **(NFPA 4.10.1)**
- B. Coordinate the fire department health maintenance program **(NFPA 4.10.2)**

XI. Liaison (NFPA 4.11) (5%)

- A. Communicate recommendations from the fire department occupational health and safety committee to the appropriate person(s) **(NFPA 4.11.1)**
- B. Provide information and assistance to personnel for surveying their districts regarding potential health and safety hazards **(NFPA 4.11.2)**
- C. Develop recommendations for changes in equipment, procedures, and methods based on results of evaluations **(NFPA 4.11.3)**

- D. Verify medical advice and treatment are available to members of the fire department **(NFPA 4.11.4)**
- E. Provide information and assistance regarding risks that may impact operations **(NFPA 4.11.5)**

XII. Infection Control (NFPA 4.12) (3%)

- A. Assess the fire department's infection control program **(NFPA 4.12.1)**
- B. Function as the fire department infection control officer, if an infection control officer position does not exist in the fire department **(NFPA 4.12.2)**

INCIDENT SAFETY OFFICER

XIII. General (NFPA 5.1) (1%)

- A. A fire department ISO shall recuse himself/herself from any investigatory process where a conflict of interest exists **(NFPA (5.1.2))**

XIV. General Requirements (NFPA 5.2) (21%)

- A. Perform the role of ISO within an incident command system (ICS) at an incident or planned event **(NFPA 5.2.1)**
- B. Monitor the IAP, conditions, activities, and operations **(NFPA 5.2.2)**
- C. Manage the transfer of ISO duties **(NFPA 5.2.3)**
- D. Stop, alter, or suspend operations based on imminent threats posed to fire fighter safety **(NFPA 5.2.4)**
- E. Monitor and determine the incident scene conditions **(NFPA 5.2.5)**
- F. Monitor the accountability system **(NFPA 5.2.6)**
- G. Determine hazardous incident conditions and advise the IC to establish or modify control zones **(NFPA 5.2.7)**
- H. Identify motor vehicle incident scene hazards **(NFPA 5.2.8)**
- I. Monitor radio transmissions **(NFPA 5.2.9)**

- J. Identify the incident strategic requirements (e.g., fire, technical rescue, hazmat), the corresponding hazards, the size, complexity and anticipated duration of the incident, including the associated risks **(NFPA 5.2.10)**
- K. Determine the hazards associated with the designation of a landing zone and interface with helicopters **(NFPA 5.2.11)**
- L. Notify the IC of the need for intervention resulting from an occupational exposure to atypical stressful events **(NFPA 5.2.12)**
- M. Determine hazardous energy sources that can affect responder health and safety **(NFPA 5.2.13)**
- N. Monitor conditions, including weather, fire fighter activities, and work cycle durations **(NFPA 5.2.14)**

XV. Fire Suppression Operations (NFPA 5.3) (12%)

- A. Determine incident environmental and operational factors and confirm the establishment of rapid intervention crew (RIC) and evaluate the need to increase RIC capability **(NFPA 5.3.1)**
- B. Communicate fire behavior, building access/egress issues, collapse, and hazardous energy issues to established RICs **(NFPA 5.3.2)**
- C. Identify and estimate building/structural collapse hazards **(NFPA 5.3.3)**
- D. Determine flashover and hostile fire event potential at building fires **(NFPA 5.3.4)**
- E. Determine fire growth and blow up **(NFPA 5.3.5)**
- F. Determine the suitability of building entry and egress options at building fires **(NFPA 5.3.6)**

- XVI. Technical Rescue Operations (NFPA 5.4) (6%)**
- A. Determine the need for a rescue technician-trained ISO or assistant ISO **(NFPA 5.4.1)**
 - B. Prepare a safety plan that identifies corrective or preventive actions **(NFPA 5.4.2)**
 - C. Deliver a safety briefing for technical rescue incident response members **(NFPA 5.4.3)**

- XVII. Hazardous Materials Operations (NFPA 5.5) (7%)**
- A. Determine the need for a hazardous materials technician trained ISO or assistant ISO **(NFPA 5.5.1)**
 - B. Prepare a safety plan that identifies corrective or preventive actions **(NFPA 5.5.2)**
 - C. Deliver a safety briefing for hazardous materials incident response members **(NFPA 5.5.3)**
 - D. Identify that hazardous materials incident control zones have been established and communicated to personnel on the scene **(NFPA 5.5.4)**

- XVIII. Accident Investigations and Review (NFPA 5.6)..... (1%)**
- A. Conduct a safety and health investigative process **(NFPA 5.6.1)**

- XIX. Post-Incident Analysis (PIA) (NFPA 5.7)..... (2%)**
- A. Prepare a written post-incident analysis (PIA) from the ISO perspective **(NFPA 5.7.1)**
 - B. Report observations, concerns, and recommendations **(NFPA 5.7.2)**