

SKILLS MANUAL

CHAPTER TEN

INCIDENT SAFETY OFFICER

NFPA 1521, 2015 Edition

EFFECTIVE JANUARY 1, 2017



Texas Commission on Fire Protection
P.O. Box 2286 Austin, Texas 78768-2286 (512) 936-3838

INSTRUCTION SHEET

INCIDENT SAFETY OFFICER PERFORMANCE SKILLS

Format

Similar Incident Safety Officer skills are combined into one skill sheet when possible. These skill sheets should be used in a progressive type grading format. The skill sheet is divided into individual skill objectives. The Examiner should evaluate Incident Safety Officer candidates as they complete each skill of the evaluation. Any skills that could not be combined are provided as independent skill sheets.

For skill sheets that do not contain time constraints, the Course Instructor should specify time constraints as necessary.

Scoring Method

For all performance skills, the scoring method for each step of the skill objective is Satisfactory (S) or Unsatisfactory (U). If any step of a skill objective is scored "Unsatisfactory", the Incident Safety Officer candidate fails that skill and must be retested. Any "Unsatisfactory" rating requires the examiner to explain the reason for the failure in writing in the comments section of the skill sheet.

Preparation and Equipment

Many of the skill sheets require the use of department policies. It is suggested that Course Instructors use the actual policies and procedures of his or her department. If teaching this course at a non-departmental institution, acquire a fire department's policies and procedures, or modification thereof, to complete these skills. For optimal learning, scenario-based training and role-playing is recommended. If these skills are part of the Commission designated skills test, you may have to provide the candidate with scenarios to facilitate the testing.

EQUIPMENT LIST

- AHJ SOPs and training materials
- Radios
- Scene marking equipment
- Preplan
- An IAP that includes situation and resource status information
- A structure fire scenario which must include:
 - A working structure fire with an IDLH atmosphere.
 - A Command Post with an Incident Commander and established ICS structure.
 - Use of an accountability system.
 - An establishment of a RIC team.
 - The need for control zones.
 - An uncontrolled hazardous energy source.
 - A potential building collapse or partial building collapse.
 - An operation with imminent threat to fire fighter safety which must be stopped, altered or suspended.
 - The need for responder rehabilitation.
 - A transfer of ISO duties.
- A wildland fire scenario which must include:
 - A wildland fire with multiple resources assigned.
 - A Command Post with an Incident Commander and established ICS structure.
 - Use of an accountability system.
 - The need for control zones.
 - A potential for fire blow up based on fuel, topography or weather.
 - An operation with imminent threat to fire fighter safety which must be stopped, altered or suspended.
 - The need for responder rehabilitation.
 - A transfer of ISO duties.
- A motor vehicle rescue scenario which must include:
 - A motor vehicle rescue incident with multiple resources assigned including a helicopter.
 - Motor vehicle incident hazards.
 - A Command Post with an Incident Commander and established ICS structure.
 - Use of an accountability system.
 - The need for control zones.
 - An uncontrolled hazardous energy source.
 - An operation with imminent threat to fire fighter safety which must be stopped, altered or suspended.
 - An atypical stressful event that causes signs and symptoms which indicate that members' psychological health must be protected.
 - The need for responder rehabilitation.
 - A transfer of ISO duties.

- A technical rescue scenario. This scenario must include any of the following operations:
 - Rope Rescue – High Angle or Low Angle
 - Confined Space Rescue
 - Trench Rescue
 - Structural Collapse
 - Dive Rescue
 - Water Rescue/Swift Water Rescue/Surf Rescue
 - Vehicle Rescue/Machinery Rescue
- An incident scenario which must include:
 - An event that caused injury, death or property damage
 - Items that may be considered evidence
 - Multiple individuals associated with the event
- An incident scenario from which a written PIA will be created
- A hazardous materials incident scenario
- [ICS Form 215A](#)
- [ICS form 208HM](#)
- Forms for safety investigation documentation
- Forms used for creating a formal PIA structure
- Safety data sheets and topographical information, blueprints, and building drawings, as applicable for the technical rescue and hazardous materials scenarios

**INCIDENT SAFETY OFFICER
LIST OF ALL SKILLS**

Discipline	Objective	Skill	Functional Name	NFPA 1521 #
Incident Safety Officer	General Requirements	5-1	Perform the Role of ISO at a Structure Fire Incident	5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.2.6, 5.2.7, 5.2.9, 5.2.10, 5.2.13, 5.2.14, 5.3.1, 5.3.2, 5.3.3, 5.3.4, 5.3.6
Incident Safety Officer	General Requirements	5-2	Perform the Role of ISO at a Wildland Fire Incident	5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.2.6, 5.2.7, 5.2.9, 5.2.10, 5.2.14, 5.3.5
Incident Safety Officer	General Requirements	5-3	Perform the Role of ISO at a Motor Vehicle Incident	5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.2.6, 5.2.7, 5.2.8, 5.2.9, 5.2.10, 5.2.11, 5.2.12, 5.2.13
Incident Safety Officer	Technical Rescue Operations	5-4	Prepare a Safety Plan for a Technical Rescue Incident	5.4.1, 5.4.2, 5.4.3
Incident Safety Officer	Hazardous Material Operations	5-5	Prepare a Safety Plan for a Hazardous Materials Incident	5.5.1, 5.5.2, 5.5.3, 5.5.4
Incident Safety Officer	Accident Investigation	5-6	Conduct a Health and Safety Investigation	5.6.1
Incident Safety Officer	Post-Incident Analysis	5-7	Prepare a Post-Incident Analysis	5.7.1, 5.7.2

TEXAS COMMISSION ON FIRE PROTECTION
Incident Safety Officer
Performance Standards Evaluation

General Requirements – Skill Number 5-1
Perform the Role of ISO at a Structure Fire Incident

NFPA 1521, 2015 edition, 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.2.6, 5.2.7, 5.2.9, 5.2.10, 5.2.13, 5.2.14, 5.3.1, 5.3.2, 5.3.3, 5.3.4, 5.3.6

OBJECTIVES

Perform the role of ISO within an incident command system (ICS) at an incident or planned event, given an incident or planned event, an ICS structure, a command post, a briefing from an incident commander (IC) or outgoing ISO, SOP related to health and safety, an incident action plan (IAP), applicable protective clothing and protective equipment, and communications and information recording equipment, so that the assignment is received and understood; situational information about the incident or planned event is received; incident priorities, goals, and objectives are transferred; action is taken to mitigate any immediate life safety threats; and applicable communication means are employed. (5.2.1)

Monitor the IAP, conditions, activities, and operations, given an incident or planned event, an IAP, and risk management assessment criteria, so that activities and operations that involve an unacceptable level of risk can be altered, terminated, or suspended to protect members' health and safety. (5.2.2)

Manage the transfer of ISO duties, given an incident or planned event, an established command structure and ISO, an IAP, an incident safety plan, a current situation status, incident resources, a command post, incident documentation, and communications equipment, so that incident information is exchanged, reports and plans for the subsequent operational period are completed, continuity of authority and situational awareness are maintained, changes in incident or planned event complexity are accounted for, the new ISO is briefed on the incident or planned event, and the new ISO is identified. (5.2.3)

Stop, alter, or suspend operations based on imminent threats posed to fire fighter safety, given an incident or planned event that contains threats to fire fighter safety, an incident management structure, risk management criteria, and applicable SOP/Gs, so that the hazard is identified, notice to suspend operations is communicated, action is taken to protect fire fighter safety, and this information is communicated to the IC. (5.2.4)

Monitor and determine the incident scene conditions, given an incident or planned event, so that the ISO can report to the IC on the status of hazards and risks to members. (5.2.5)

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Incident Safety Officer
Performance Standards Evaluation

Monitor the accountability system, given an incident or planned event, an IMS, personal identification devices, radios, and applicable SOP/Gs, so that it can be determined that the accountability system is being utilized as designed, all relevant positions and functions are implemented, and any noted deficiencies are communicated to the IC. (5.2.6)

Determine hazardous incident conditions and advise the IC to establish or modify control zones, given an incident, so that the incident control zones are communicated to members and entry into the hazardous area is controlled. (5.2.7)

Monitor radio transmissions; given an incident or planned event with radio transmissions, so that communication barriers are identified and the possibility for missed, unclear, or incomplete communications is corrected. (5.2.9)

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, given an incident or planned event, an IMS, and applicable SOP/Gs, so that the ISO can determine the need for assistant ISOs and/or technical specialists and make the recommendations to the IC. (5.2.10)

Determine hazardous energy sources that can affect responder health and safety, given an incident or planned event, an active IAP with assigned responders, and an opportunity to perform environmental and operational reconnaissance, so that risks to personnel are identified, reduced, or eliminated; hazard information is relayed to IC staff and ancillary agencies responsible for the hazardous energy source; appropriate zones are established and marked; and personnel operating at the scene are briefed on the hazardous energy control zone. (5.2.13)

Monitor conditions, including weather, fire fighter activities, and work cycle durations, given an incident or planned event, so that the need for rehabilitation can be determined, communicated to the IC, and implemented to ensure fire fighter health and safety. (5.2.14)

Determine incident environmental and operational factors and confirm the establishment of rapid intervention crew (RIC) and evaluate the need to increase RIC capability, given an incident or planned event that includes one or more immediately dangerous to life and health (IDLH) elements, responders engaged in tactical operations, a pre-assigned RIC, and an IAP, so that a recommendation is offered to the IC. (5.3.1)

Communicate fire behavior, building access/egress issues, collapse, and hazardous energy issues to established RICs, given an incident or planned event, so that RIC team leaders are aware of the observations and concerns of the ISO. (5.3.2)

Identify and estimate building/structural collapse hazards, given a building fire incident, a building collapse incident, reconnaissance opportunity, and established AHJ pre-incident

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Incident Safety Officer
Performance Standards Evaluation

building plan information, so that the identified collapse hazard can be communicated to the IC and tactical-level management units; judgment is offered to the IC for the establishment of control zone(s); personnel are removed from collapse zone dangers; and appropriate adjustments are made to the IAP by the IC to improve member safety. (5.3.3)

Determine flashover and hostile fire event potential at building fires, given an incident, so that risks are identified and communicated to the incident commander and tactical-level management units, and adjustments are made to strategy and tactics to improve safety. (5.3.4)

Determine the suitability of building entry and egress options at building fires, given various building fire incidents, so that entry and egress options are optimized through communication with the IC and tactical-level management components. (5.3.6)

INSTRUCTIONS - procedures for achieving the objective

Given a structure fire scenario, you shall perform the role of the Incident Safety Officer (ISO). This will include:

1. Monitoring the IAP, conditions, activities, and operations
2. Managing the transfer of ISO duties
3. Stopping, altering, or suspending operations based on imminent threats posed to fire fighter safety
4. Monitoring and determining the incident scene conditions
5. Monitoring the accountability system
6. Determining hazardous incident conditions and advising the IC to establish or modify control zones
7. Monitoring radio transmissions
8. Identifying the incident strategic requirements and the corresponding hazards
9. Determining hazardous energy sources that can affect responder health and safety
10. Determining the need for rehab by monitoring conditions, including weather, fire fighter activities, and work cycle durations
11. Determining incident environmental and operational factors and confirming the establishment of rapid intervention crew (RIC) and evaluating the need to increase RIC capability
12. Communicating fire behavior, building access/egress issues, collapse, and hazardous energy issues to established RICs
13. Identifying and estimate building/structural collapse hazards
14. Determining flashover and hostile fire event potential
15. Determining the suitability of building entry and egress options

You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

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Incident Safety Officer
Performance Standards Evaluation

EXAMINER'S NOTE

Each student must perform the entire skill individually.

It is suggested that you use the policies and procedures of your department. If you are teaching this course at a non-departmental institution, acquire a fire department's policies and procedures, or modification thereof, to complete the skill.

PREPARATION & EQUIPMENT

AHJ SOPs and training materials

Radios

Scene marking equipment

Preplan

A simulated structure fire scenario. This scenario must include:

- A structure fire with an IDLH atmosphere. (One suggestion is to use a video or photos of an incident. Please review the skill steps when creating your scenario to ensure all requirements are met.)
- A Command Post with an Incident Commander and established ICS structure.
- Use of an accountability system.
- An establishment of a RIC team.
- The need for control zones.
- An uncontrolled hazardous energy source.
- A potential building collapse or partial building collapse.
- An operation with imminent threat to fire fighter safety which must be stopped, altered or suspended.
- The need for responder rehabilitation.
- A transfer of ISO duties.

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Incident Safety Officer
Performance Standards Evaluation

Candidate: _____

Notes: _____

Training Provider: _____

Test Site: _____

Examiner: _____

Incident Safety Officer	<u>TEST</u>		<u>RETEST</u>	
Skill # 5-1	S	U	S	U
NFPA 1521 – 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.2.6, 5.2.7, 5.2.9, 5.2.10, 5.2.13, 5.2.14, 5.3.1, 5.3.2, 5.3.3, 5.3.4, 5.3.6				
Perform the Role of ISO at a Structure Fire Incident				
The candidate:	S	U	S	U
a) Received IAP briefing from Command.				
b) Received assignment from Command.				
c) Prioritized tasks and evaluated resource needs.				
d) Applied AHJ building fire preplan systems.				
e) Recognized the need for supplemental technical knowledge, when applicable.				
f) Monitored scene conditions.				
g) Identified, evaluated and prioritized hazards.				
h) Determined degree of risk to members and prioritized the risks.				
i) Applied knowledge to minimize risks.				
j) Utilized organizational policies, procedures and training materials to ensure safety.				
k) Made decisions and took proactive actions to ensure responder safety.				
l) Demonstrated comprehensive knowledge of hazardous conditions and incident operations.				
m) Stopped, altered or suspended operations based on imminent threat to fire fighter safety.				
n) Reported to Command the status of hazards and risks to members.				
o) Monitored IAP and evaluated risks.				

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p)	Anticipated evolving conditions that require IAP changes.				
q)	Monitored accountability system and reported any deficiencies to Command.				
r)	Advised Command to establish/modify control zones.				
s)	Communicated control zones to members to limit number of members in proximity to a hazard.				
t)	Monitored radio transmissions for missed, unclear or incomplete communications.				
u)	Evaluated hazards and determined if additional ISOs or technical specialists were required.				
v)	Identified and determined the risk of hazardous energy source(s).				
w)	Confirmed establishment of RIC team according to regulations, procedures and standards.				
x)	Audited conditions to ensure RIC policies were followed.				
y)	Interpreted and communicated fire suppressions hazards to RIC team. (fire behavior, access, egress, etc.)				
z)	Evaluated the need to increase RIC capability and made recommendation to Command when applicable.				
aa)	Identified and estimated structure collapse hazards.				
bb)	Read smoke and communicated fire behavior concerns.				
cc)	Determined flashover and hostile fire event potential.				
dd)	Determined suitability of building entry and egress options.				
ee)	Communicated by radio.				
ff)	Communicated face-to-face.				
gg)	Demonstrated critical identification, analysis and judgement abilities.				
hh)	Monitored conditions and determined the need for rehabilitation.				
ii)	Recognized signs of cardiac, heat and cold stress.				

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Incident Safety Officer
Performance Standards Evaluation

General Requirements – Skill Number 5-2
Perform the Role of ISO at a Wildland Fire Incident

NFPA 1521, 2015 edition, 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.2.6, 5.2.7, 5.2.9, 5.2.10, 5.2.14, 5.3.5

OBJECTIVES

Perform the role of ISO within an incident command system (ICS) at an incident or planned event, given an incident or planned event, an ICS structure, a command post, a briefing from an incident commander (IC) or outgoing ISO, SOP related to health and safety, an incident action plan (IAP), applicable protective clothing and protective equipment, and communications and information recording equipment, so that the assignment is received and understood; situational information about the incident or planned event is received; incident priorities, goals, and objectives are transferred; action is taken to mitigate any immediate life safety threats; and applicable communication means are employed. (5.2.1)

Monitor the IAP, conditions, activities, and operations, given an incident or planned event, an IAP, and risk management assessment criteria, so that activities and operations that involve an unacceptable level of risk can be altered, terminated, or suspended to protect members' health and safety. (5.2.2)

Manage the transfer of ISO duties, given an incident or planned event, an established command structure and ISO, an IAP, an incident safety plan, a current situation status, incident resources, a command post, incident documentation, and communications equipment, so that incident information is exchanged, reports and plans for the subsequent operational period are completed, continuity of authority and situational awareness are maintained, changes in incident or planned event complexity are accounted for, the new ISO is briefed on the incident or planned event, and the new ISO is identified. (5.2.3)

Stop, alter, or suspend operations based on imminent threats posed to fire fighter safety, given an incident or planned event that contains threats to fire fighter safety, an incident management structure, risk management criteria, and applicable SOP/Gs, so that the hazard is identified, notice to suspend operations is communicated, action is taken to protect fire fighter safety, and this information is communicated to the IC. (5.2.4)

Monitor and determine the incident scene conditions, given an incident or planned event, so that the ISO can report to the IC on the status of hazards and risks to members. (5.2.5)

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Incident Safety Officer
Performance Standards Evaluation

Monitor the accountability system, given an incident or planned event, an IMS, personal identification devices, radios, and applicable SOP/Gs, so that it can be determined that the accountability system is being utilized as designed, all relevant positions and functions are implemented, and any noted deficiencies are communicated to the IC. (5.2.6)

Determine hazardous incident conditions and advise the IC to establish or modify control zones, given an incident, so that the incident control zones are communicated to members and entry into the hazardous area is controlled. (5.2.7)

Monitor radio transmissions; given an incident or planned event with radio transmissions, so that communication barriers are identified and the possibility for missed, unclear, or incomplete communications is corrected. (5.2.9)

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, given an incident or planned event, an IMS, and applicable SOP/Gs, so that the ISO can determine the need for assistant ISOs and/or technical specialists and make the recommendations to the IC. (5.2.10)

Monitor conditions, including weather, fire fighter activities, and work cycle durations, given an incident or planned event, so that the need for rehabilitation can be determined, communicated to the IC, and implemented to ensure fire fighter health and safety. (5.2.14)

Determine fire growth and blow up, given wildland and cultivated vegetation fires, so that information can be communicated to the IC and tactical-level management components, and adjustments made to the IAP to improve member safety. (5.3.5)

INSTRUCTIONS - procedures for achieving the objective

Given a wildland fire scenario, you shall perform the role of the Incident Safety Officer (ISO). This will include:

1. Monitoring the IAP, conditions, activities, and operations
2. Managing the transfer of ISO duties
3. Stopping, altering, or suspending operations based on imminent threats posed to fire fighter safety
4. Monitoring and determining the incident scene conditions
5. Monitoring the accountability system
6. Determining hazardous incident conditions and advising the IC to establish or modify control zones
7. Monitoring radio transmissions
8. Identifying the incident strategic requirements and the corresponding hazards
9. Determining the need for rehab by monitoring conditions, including weather, fire fighter activities, and work cycle durations
10. Determining fire growth potential based on fuel, topography and weather

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TEXAS COMMISSION ON FIRE PROTECTION
Incident Safety Officer
Performance Standards Evaluation

You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINER'S NOTE

Each student must perform the entire skill individually.

It is suggested that you use the policies and procedures of your department. If you are teaching this course at a non-departmental institution, acquire a fire department's policies and procedures, or modification thereof, to complete the skill.

PREPARATION & EQUIPMENT

AHJ SOPs and training materials

Radios

A simulated wildland fire scenario. This scenario must include:

- A wildland fire with multiple resources assigned. (One suggestion is to use a video or photos of an incident. Please review the skill steps when creating your scenario to ensure all requirements are met.)
- A Command Post with an Incident Commander and established ICS structure.
- Use of an accountability system.
- The need for control zones.
- A potential for fire blow up based on fuel, topography or weather.
- An operation with imminent threat to fire fighter safety which must be stopped, altered or suspended.
- The need for responder rehabilitation.
- A transfer of ISO duties.

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TEXAS COMMISSION ON FIRE PROTECTION
Incident Safety Officer
Performance Standards Evaluation

Candidate: _____

Notes: _____

Training Provider: _____

Test Site: _____

Examiner: _____

Incident Safety Officer	<u>TEST</u>		<u>RETEST</u>	
Skill # 5-2	S	U	S	U
NFPA 1521 – 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.2.6, 5.2.7, 5.2.9, 5.2.10, 5.2.14, 5.3.5				
Perform the Role of ISO at a Wildland Fire Incident				
The candidate:	S	U	S	U
a) Received IAP briefing from Command.				
b) Received assignment from Command.				
c) Prioritized tasks and evaluated resource needs.				
d) Recognized the need for supplemental technical knowledge, when applicable.				
e) Monitored scene conditions.				
f) Interpreted fuel, topography, flame length and weather effects on fire conditions.				
g) Communicated fire behavior concerns.				
h) Identified and evaluated hazards.				
i) Determined degree of risk to members and prioritized the risks.				
j) Applied knowledge to minimize risks.				
k) Made decisions and took proactive actions to ensure responder safety.				
l) Demonstrated comprehensive knowledge of hazardous conditions and incident operations.				
m) Utilized organizational policies, procedures and training materials to ensure safety.				
n) Stopped, altered or suspended operations based on imminent threat to fire fighter safety.				
o) Reported to Command the status of hazards and risks to members.				
p) Monitored IAP and evaluated risks.				

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Incident Safety Officer
Performance Standards Evaluation

q)	Anticipated evolving conditions that require IAP changes.				
r)	Monitored accountability system and reported any deficiencies to Command.				
s)	Advised Command to establish/modify control zones.				
t)	Communicated control zones to members to limit number of members in proximity to a hazard.				
u)	Monitored radio transmissions for missed, unclear or incomplete communications.				
v)	Evaluated hazards and determined if additional ISOs or technical specialists were required.				
w)	Communicated by radio.				
x)	Communicated face-to-face.				
y)	Demonstrated critical identification, analysis and judgement abilities.				
z)	Monitored conditions and determined the need for rehabilitation.				
aa)	Recognized signs of cardiac, heat and cold stress.				
bb)	Communicated rehabilitation need to Command.				
cc)	Established rehabilitation for fire fighter safety.				
dd)	Transferred ISO duties to new ISO.				
ee)	Delivered ISO transfer briefing and completed required forms.				
ff)	Performed skill in a safe and proficient manner.				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

Examiner/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
Incident Safety Officer
Performance Standards Evaluation

Certifying Examiner

Date

Re-Test Certifying
Examiner

Date

Overall Skill Sheet Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
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Performance Standards Evaluation

General Requirements – Skill Number 5-3
Perform the Role of ISO at a Motor Vehicle Incident

NFPA 1521, 2015 edition, 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.2.6, 5.2.7, 5.2.8, 5.2.9, 5.2.10, 5.2.11, 5.2.12, 5.2.13

OBJECTIVES

Perform the role of ISO within an incident command system (ICS) at an incident or planned event, given an incident or planned event, an ICS structure, a command post, a briefing from an incident commander (IC) or outgoing ISO, SOP related to health and safety, an incident action plan (IAP), applicable protective clothing and protective equipment, and communications and information recording equipment, so that the assignment is received and understood; situational information about the incident or planned event is received; incident priorities, goals, and objectives are transferred; action is taken to mitigate any immediate life safety threats; and applicable communication means are employed. (5.2.1)

Monitor the IAP, conditions, activities, and operations, given an incident or planned event, an IAP, and risk management assessment criteria, so that activities and operations that involve an unacceptable level of risk can be altered, terminated, or suspended to protect members' health and safety. (5.2.2)

Manage the transfer of ISO duties, given an incident or planned event, an established command structure and ISO, an IAP, an incident safety plan, a current situation status, incident resources, a command post, incident documentation, and communications equipment, so that incident information is exchanged, reports and plans for the subsequent operational period are completed, continuity of authority and situational awareness are maintained, changes in incident or planned event complexity are accounted for, the new ISO is briefed on the incident or planned event, and the new ISO is identified. (5.2.3)

Stop, alter, or suspend operations based on imminent threats posed to fire fighter safety, given an incident or planned event that contains threats to fire fighter safety, an incident management structure, risk management criteria, and applicable SOP/Gs, so that the hazard is identified, notice to suspend operations is communicated, action is taken to protect fire fighter safety, and this information is communicated to the IC. (5.2.4)

Monitor and determine the incident scene conditions, given an incident or planned event, so that the ISO can report to the IC on the status of hazards and risks to members. (5.2.5)

Monitor the accountability system, given an incident or planned event, an IMS, personal identification devices, radios, and applicable SOP/Gs, so that it can be determined that

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TEXAS COMMISSION ON FIRE PROTECTION
Incident Safety Officer
Performance Standards Evaluation

the accountability system is being utilized as designed, all relevant positions and functions are implemented, and any noted deficiencies are communicated to the IC. (5.2.6)

Determine hazardous incident conditions and advise the IC to establish or modify control zones, given an incident, so that the incident control zones are communicated to members and entry into the hazardous area is controlled. (5.2.7)

Identify motor vehicle incident scene hazards, given an apparatus and temporary traffic control devices, an incident or planned event, so that actions to mitigate the hazards as described in Section 8.7 of NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, are taken to protect member safety. (5.2.8)

Monitor radio transmissions; given an incident or planned event with radio transmissions, so that communication barriers are identified and the possibility for missed, unclear, or incomplete communications is corrected. (5.2.9)

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, given an incident or planned event, an IMS, and applicable SOP/Gs, so that the ISO can determine the need for assistant ISOs and/or technical specialists and make the recommendations to the IC. (5.2.10)

Determine the hazards associated with the designation of a landing zone and interface with helicopters, given an incident or planned event that requires the use of a helicopter and landing zone, so that the IC can be informed of special requirements and the landing can be executed in a safe manner (5.2.11)

Notify the IC of the need for intervention resulting from an occupational exposure to atypical stressful events, given an incident or planned event and an awareness of incidents that can cause incident stress, so that members' psychological health and safety can be protected. (5.2.12)

Determine hazardous energy sources that can affect responder health and safety, given an incident or planned event, an active IAP with assigned responders, and an opportunity to perform environmental and operational reconnaissance, so that risks to personnel are identified, reduced, or eliminated; hazard information is relayed to IC staff and ancillary agencies responsible for the hazardous energy source; appropriate zones are established and marked; and personnel operating at the scene are briefed on the hazardous energy control zone. (5.2.13)

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INSTRUCTIONS - procedures for achieving the objective

Given a motor vehicle rescue scenario, you shall perform the role of the Incident Safety Officer (ISO). This will include:

1. Monitoring the IAP, conditions, activities, and operations
2. Managing the transfer of ISO duties
3. Stopping, altering, or suspending operations based on imminent threats posed to fire fighter safety
4. Monitoring and determining the incident scene conditions
5. Monitoring the accountability system
6. Determining hazardous incident conditions and advising the IC to establish or modify control zones
7. Monitoring radio transmissions
8. Identifying the incident strategic requirements and the corresponding hazards
9. Determining hazardous energy sources that can affect responder health and safety
10. Determining the need for rehab by monitoring conditions, including weather, fire fighter activities, and work cycle durations
11. Identifying motor vehicle incident scene hazards
12. Determining the hazards associated with the designation of a landing zone and interface with a helicopter
13. Notifying the IC of the need for intervention resulting from exposure to an atypical stressful event

You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINER'S NOTE

Each student must perform the entire skill individually.

It is suggested that you use the policies and procedures of your department. If you are teaching this course at a non-departmental institution, acquire a fire department's policies and procedures, or modification thereof, to complete the skill.

PREPARATION & EQUIPMENT

AHJ SOPs and training materials

Radios

A simulated motor vehicle rescue scenario. This scenario must include:

- A motor vehicle rescue incident with multiple resources assigned including a helicopter. (One suggestion is to use a video or photos of an incident. Please review the skill steps when creating your scenario to ensure all requirements are met.)
- Motor vehicle incident hazards.
- A Command Post with an Incident Commander and established ICS structure.

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- Use of an accountability system.
- The need for control zones.
- An uncontrolled hazardous energy source.
- An operation with imminent threat to fire fighter safety which must be stopped, altered or suspended.
- An atypical stressful event that causes signs and symptoms which indicate that members' psychological health must be protected.
- The need for responder rehabilitation.
- A transfer of ISO duties.

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Incident Safety Officer
Performance Standards Evaluation

Candidate: _____

Notes: _____

Training Provider: _____

Test Site: _____

Examiner: _____

Incident Safety Officer	<u>TEST</u>		<u>RETEST</u>	
Skill # 5-3	S	U	S	U
NFPA 1521- 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.2.6, 5.2.7, 5.2.8, 5.2.9, 5.2.10, 5.2.11, 5.2.12, 5.2.13				
Perform the Role of ISO at a Motor Vehicle Incident				
The candidate:	S	U	S	U
a) Received IAP briefing from Command.				
b) Received assignment from Command.				
c) Prioritized tasks and evaluated resource needs.				
d) Recognized the need for supplemental technical knowledge, when applicable.				
e) Monitored scene conditions.				
f) Identified and evaluated hazards.				
g) Determined degree of risk to members and prioritized the risks.				
h) Applied knowledge to minimize risks.				
i) Made decisions and took proactive actions to ensure responder safety.				
j) Utilized organizational policies, procedures and training materials to ensure safety.				
k) Demonstrated comprehensive knowledge of hazardous conditions and incident operations.				
l) Stopped, altered or suspended operations based on imminent threat to fire fighter safety.				
m) Reported to Command the status of hazards and risks to members.				
n) Monitored IAP and evaluated risks.				
o) Anticipated evolving conditions that require IAP changes.				

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p)	Monitored accountability system and reported any deficiencies to Command.				
q)	Advised Command to establish/modify control zones.				
r)	Communicated control zones to members to limit number of members in proximity to a hazard.				
s)	Monitored radio transmissions for missed, unclear or incomplete communications.				
t)	Evaluated hazards and determined if additional ISOs or technical specialists were required.				
u)	Identified and determined the risk of hazardous energy source(s).				
v)	Identified motor vehicle incident scene hazards, so that actions to mitigate the hazards are taken to protect member safety.				
w)	Demonstrated knowledge of state and local traffic regulations, if applicable.				
x)	Recognized the hazards associated with the designation of a landing zone and interface with helicopter.				
y)	Notified Command of the need for intervention resulting from an occupational exposure to atypical stressful events.				
z)	Displayed an accepting and empathetic demeanor.				
aa)	Communicated by radio.				
bb)	Communicated face-to-face.				
cc)	Demonstrated critical identification, analysis and judgement abilities.				
dd)	Monitored conditions and determined the need for rehabilitation.				
ee)	Recognized signs of cardiac, heat and cold stress.				
ff)	Communicated rehabilitation need to Command.				
gg)	Established rehabilitation for fire fighter safety.				
hh)	Transferred ISO duties to new ISO.				
ii)	Delivered transfer briefing and completed required forms.				
jj)	Performed skill in a safe and proficient manner.				

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S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

Examiner/Candidate Comments:

Certifying Examiner

Date

Re-Test Certifying
Examiner

Date

Overall Skill Sheet Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>

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Technical Rescue Operations – Skill Number 5-4
Prepare a Safety Plan for a Technical Rescue Incident

NFPA 1521, 2015 edition, 5.4.1, 5.4.2, 5.4.3

OBJECTIVES

Determine the need for a rescue technician-trained ISO or assistant ISO, given a technical rescue incident, CFR 1910.146; NFPA1006, *Standard for Technical Rescuer Professional Qualifications*, and AHJ SOP/Gs for technical rescue operations, so that the IC can appoint an assistant ISO or a technical rescuer. (5.4.1)

Prepare a safety plan that identifies corrective or preventive actions, given a technical rescue incident, an IAP that includes situation and resource status information, an incident safety analysis form (ICS form 215A or its equivalent), weather condition information, special technical data (such as safety data sheets and topographical information, blueprints, and building drawings), and predetermined incident information, so that safety data are obtained, an incident safety plan is developed with coordinating documentation, elements of the plan are incorporated in the IAP, changes in incident safety conditions are noted and reported, judgment is offered to the IC for the establishment of control zone(s) and exclusion zone(s), safety and appropriate PPE elements are met, and assistant ISOs are appointed as necessary. (5.4.2)

Deliver a safety briefing for technical rescue incident response members, given a technical rescue incident, so that critical information such as expected hazards, PPE requirements, established zones, emergency procedures, air monitoring, medical surveillance, and chain-of-command elements are communicated. (5.4.3)

INSTRUCTIONS - procedures for achieving the objective

Given a technical rescue scenario and an IAP that includes situation and resource status information, an incident safety analysis form (ICS form 215A or its equivalent), weather condition information, special technical data (such as safety data sheets and topographical information, blueprints, and building drawings), and predetermined incident information, you shall prepare a safety plan and conduct a safety briefing where the plan is communicated to all members operating at the technical rescue incident.

The safety plan at a minimum, must contain the following elements:

1. Expected hazards with corrective and/or preventive actions
2. PPE requirements
3. Established zones (control and exclusion)
4. Emergency procedures

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5. Air monitoring
6. Medical surveillance
7. Chain of command elements
8. Appointment of assistant ISOs and/or rescue technician-trained ISO/assistant ISO, as necessary

You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINER'S NOTE

It is suggested that you use the policies and procedures of your department. If you are teaching this course at a non-departmental institution, acquire a fire department's policies and procedures, or modification thereof, to complete the skill.

PREPARATION & EQUIPMENT

AHJ SOPs

Technical rescue scenario. This scenario must include any of the following operations:

- Rope Rescue – High Angle or Low Angle
- Confined Space Rescue
- Trench Rescue
- Structural Collapse
- Dive Rescue
- Water Rescue/Swift Water Rescue/Surf Rescue
- Vehicle Rescue/Machinery Rescue

An IAP that includes situation and resource status information

ICS form 215A*

Safety data sheets and topographical information, blueprints, and building drawings, as applicable for the technical rescue scenario

*As of 11/28/16, this ICS form is available on-line, free of charge, at the following web address:
https://www.fema.gov/media-library-data/20130726-1922-25045-3105/ics_forms_215a.pdf

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Performance Standards Evaluation

Candidate: _____

Notes: _____

Training Provider: _____

Test Site: _____

Examiner: _____

Incident Safety Officer	<u>TEST</u>		<u>RETEST</u>	
Skill # 5-4	S	U	S	U
NFPA 1521 – 5.4.1, 5.4.2, 5.4.3				
Prepare a Safety Plan for a Technical Rescue Incident				
The candidate:	S	U	S	U
a) Obtained IAP and safety data documentation.				
b) Read/edited technical documentation.				
c) Identified technical rescue resources needed.				
d) Determined the need for a rescue technician-trained ISO or assistant ISO.				
e) Forecasted stabilization strategies.				
f) Identified corrective and/or preventive actions.				
g) Prepared safety plan that contained all required elements and documentation.				
h) Communicated safety issues within the command structure.				
i) Incorporated elements of the safety plan into the IAP.				
j) Delivered a safety briefing that contained all required elements.				
k) Communicated critical messages in written and oral format.				
l) Demonstrated critical identification, analysis and judgement abilities.				
m) Performed skill in a safe and proficient manner.				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

Examiner/Candidate Comments:

Certifying Examiner

Date

Re-Test Certifying
Examiner

Date

Overall Skill Sheet Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>

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Hazardous Materials Operations – Skill Number 5-5
Prepare a Safety Plan for a Hazardous Materials Incident

NFPA 1521, 2015 edition, 5.5.1, 5.5.2, 5.5.3, 5.5.4

OBJECTIVES

Determine the need for a hazardous materials technician trained ISO or assistant ISO, given a hazardous materials incident, 29 CFR 1910.120; NFPA 472, Standard for Competency for Responders to Hazardous Materials/Weapons of Mass Destruction Incidents; and AHJ SOP/Gs for hazardous materials operations, so that the IC can appoint an assistant ISO or a hazardous materials technician. (5.5.1)

Prepare a safety plan that identifies corrective or preventive actions, given a hazmat incident, IAP that includes situation and resource status information, an incident safety analysis form (ICS form 215A or its equivalent), weather condition information, special technical data (such as safety data sheets and topographical information, blueprints, and building drawings), and predetermined incident information, so that safety data are obtained, an incident safety plan is developed with coordinating documentation, elements of the plan are incorporated in the IAP, changes in incident safety conditions are noted and reported, judgment is offered to the IC for the establishment of control zone(s) and exclusion zone(s), safety and PPE elements of 29 CFR 1910.120 are met, and assistant ISOs are appointed as necessary. (5.5.2)

Deliver a safety briefing for hazardous materials incident response members, given a hazmat incident or scenario, so that critical information such as expected hazards, PPE requirements, established zones, decontamination procedures, emergency procedures, air monitoring, medical surveillance, and chain-of-command elements are communicated. (5.5.3)

Identify that hazardous materials incident control zones have been established and communicated to personnel on the scene, given a hazardous materials incident and SOP/Gs, so that responders can identify marked control zones, which must be inclusive of no-entry zones, hot zones, hazard reduction zones, support zones, and corridors. (5.5.4)

INSTRUCTIONS - procedures for achieving the objective

Given a hazardous material incident scenario and an IAP that includes situation and resource status information, an incident safety analysis form (ICS form 215A or its equivalent), weather condition information, special technical data (such as safety data sheets and topographical information, blueprints, and building drawings), and predetermined incident information, you shall prepare a safety plan and conduct a safety

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briefing where the plan is communicated to all members operating at the hazardous material incident.

The safety plan at a minimum, must contain the following elements:

1. Expected hazards with corrective and/or preventive actions
2. PPE requirements
3. Established zones (no-entry, hot, hazard reduction, support, and corridors)
4. Decontamination procedures
5. Emergency procedures
6. Air monitoring
7. Medical surveillance
8. Chain of command elements
9. Appointment of assistant ISOs and/or hazmat technician-trained ISO/assistant ISO, as necessary

You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINER'S NOTE

It is suggested that you use the policies and procedures of your department. If you are teaching this course at a non-departmental institution, acquire a fire department's policies and procedures, or modification thereof, to complete the skill.

PREPARATION & EQUIPMENT

AHJ SOPs

Hazardous Materials incident scenario

An IAP that includes situation and resource status information

ICS Form 215A*

ICS 208HM*

Safety data sheets and topographical information, blueprints, and building drawings, as applicable for the hazardous material incident scenario

*As of 11/28/16, the ICS forms are available on-line, free of charge, at the following web addresses:

215A: https://www.fema.gov/media-library-data/20130726-1922-25045-3105/ics_forms_215a.pdf

208HM: <http://www.firescope.org/ics-forms/ICS%20208.pdf>

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 Performance Standards Evaluation

Candidate: _____

Notes: _____

Training Provider: _____

Test Site: _____

Examiner: _____

Incident Safety Officer	<u>TEST</u>		<u>RETEST</u>	
Skill # 5-5	S	U	S	U
NFPA 1521 – 5.4.1, 5.5.2, 5.5.3, 5.5.4				
Prepare a Safety Plan for a Hazardous Materials Incident				
The candidate:	S	U	S	U
a) Obtained IAP and safety data documentation.				
b) Read/edited technical documentation.				
c) Identified hazmat resources needed.				
d) Determined the need for a hazmat technician-trained ISO or assistant ISO.				
e) Forecasted stabilizations strategies.				
f) Identified corrective and/or preventive actions.				
g) Adapted zoning strategies to incident challenges.				
h) Prepared safety plan that contained all required elements and documentation.				
i) Communicated safety issues within the command structure.				
j) Incorporated elements of the safety plan into the IAP.				
k) Delivered a safety briefing that contained all required elements.				
l) Communicated critical messages in written and oral format.				
m) Demonstrated critical identification, analysis and judgement abilities.				
n) Performed skill in a safe and proficient manner.				

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Incident Safety Officer
Performance Standards Evaluation

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

Examiner/Candidate Comments:

Certifying Examiner

Date

Re-Test Certifying
Examiner

Date

Overall Skill Sheet Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>

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Accident Investigation – Skill Number 5-6
Conduct a Health and Safety Investigation

NFPA 1521, 2015 edition, 5.6.1

OBJECTIVE

Conduct a safety and health investigative process, given an incident or planned event, using applicable documents and techniques, so that the chain of evidence is started and maintained, critical incident data elements are collected, potential witnesses are identified, applicable SOP/G's are identified for review, and gathered information is documented and prepared for the HSO or investigative continuance as established by the AHJ policies and SOP/G's. (5.6.1)

INSTRUCTIONS - procedures for achieving the objective

Given an incident scenario, you shall conduct a health and safety investigation. This will include:

1. Analyzing information from different data sources to include identifying equipment and materials that might be considered evidence.
2. Demonstrating or stating procedures for preserving evidence and documentation.
3. Interacting with or interviewing personnel associated with the incident.
4. Completing safety investigation documentation, identifying the cause(s) of injury, death or property damage.
5. Determining corrective actions needed to prevent similar losses in the future.

You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINER'S NOTE

It is suggested that you use the policies and procedures of your department. If you are teaching this course at a non-departmental institution, acquire a fire department's policies and procedures, or modification thereof, to complete the skill.

PREPARATION & EQUIPMENT

AHJ SOP/Gs

Forms

Incident scenario. This scenario must include:

- An event that caused injury, death or property damage
- Items that may be considered evidence
- Multiple individuals associated with the event

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 Performance Standards Evaluation

Candidate: _____ Notes: _____

Training Provider: _____

Test Site: _____

Examiner: _____

Incident Safety Officer	<u>TEST</u>		<u>RETEST</u>	
Skill # 5-6	S	U	S	U
NFPA 1521 – 5.6.1				
Conduct a Health and Safety Investigation				
The candidate:	S	U	S	U
a) Analyzed information from different data sources; identified equipment and materials that might be considered evidence				
b) Demonstrated or stated procedures for preserving evidence and documentation				
c) Interacted with or interviewed personnel associated with the incident, often under conditions of personal stress				
d) Completed safety investigation documentation; identified cause(s) of injury, death or property damage				
e) Determined corrective actions needed to prevent similar losses in the future				
f) Demonstrated technical knowledge pertinent to the incident under investigation				
g) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

Examiner/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
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 Performance Standards Evaluation

 Certifying Examiner

 Date

 Re-Test
 Certifying Examiner

 Date

Overall Skill Sheet Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
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Post-Incident Analysis – Skill Number 5-7
Prepare a Post-Incident Analysis

NFPA 1521, 2015 edition, 5.7.1, 5.7.2

OBJECTIVES

Prepare a written post-incident analysis (PIA) from the ISO perspective, given a witnessed incident, exercise, or planned event, so that safety and health issues, best safety practices, deviations from SOP/G's established by the AHJ, and recommendations for future events are documented. (5.7.1)

Report observations, concerns, and recommendations, given a witnessed incident or planned event and PIA group setting, so that that safety and health issues, best safety practices, deviations from SOP/G's established by the AHJ, and recommendations for future events are communicated to the AHJ. (5.7.2)

INSTRUCTIONS - procedures for achieving the objective

Given an incident scenario, you shall prepare a post-incident analysis. This will include:

1. Creating field notes of incident observations
2. Preparing a formal PIA structure using field notes
3. Relaying composed constructive information in a group setting.

You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINER'S NOTE

It is suggested that you use the policies and procedures of your department. If you are teaching this course at a non-departmental institution, acquire a fire department's policies and procedures, or modification thereof, to complete the skill.

PREPARATION & EQUIPMENT

AHJ SOP/G's
Forms
Incident scenario

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TEXAS COMMISSION ON FIRE PROTECTION
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 Performance Standards Evaluation

Candidate: _____ Notes: _____

Training Provider: _____

Test Site: _____

Examiner: _____

Incident Safety Officer	<u>TEST</u>		<u>RETEST</u>	
Skill # 5-7	S	U	S	U
NFPA 1521 – 5.7.1, 5.7.2				
Prepare a Post-Incident Analysis				
The candidate:	S	U	S	U
a) Created field notes of incident observations				
b) Prepared a formal PIA structure using field notes				
c) Demonstrated active listening skills				
d) Relayed composed constructive information in a group setting				
e) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

Examiner/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
Incident Safety Officer
Performance Standards Evaluation

Certifying Examiner

Date

Overall Skill Sheet Score
Pass <input type="checkbox"/> Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score
Pass <input type="checkbox"/> Fail <input type="checkbox"/>

Re-Test
Certifying Examiner

Date

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