



# PENNSYLVANIA STATE FIRE ACADEMY CONFINED SPACE RESCUE TECHNICIAN SKILLS

## Confined Space Rescue Technician I & II Skill Stations

NFPA 1006 – Chapter 7 (2013 Edition)

### **Confined Space Rescue Technician Level I**

Station B	Air Monitoring and Ventilation	Mandatory Station
Station D	Entry Operations	Mandatory Station
Station E	Victim Packaging and Removal	Mandatory Station
Station F	Rescuer Removal and Termination	Mandatory Station

### **Confined Space Rescue Technician Level II**

Station A	Scene Size-up and Initial Actions	Mandatory Station
Station C	Hazard Control	Mandatory Station
Station G	Preplan of a Confined Space Incident	Mandatory Station

### **NOTE: Test Requirements**

Technician Level I – B, D, E and F

Technician Level II – A, C, G



## PENNSYLVANIA STATE FIRE ACADEMY CONFINED SPACE RESCUE TECHNICIAN SKILLS

<b>STATION A – Scene Size Up and Initial Actions</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 7 Mandatory Station: JPRs 7.2.2, 7.2.3</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Directions:** You are dispatched to the scene of a confined space emergency. For this incident, you are to conduct a size-up so existing and potential conditions are evaluated within the general and space-specific areas; witnesses are interviewed; hazards are identified and mitigated; potential victim locations(s), condition(s), and number(s) are determined; potential for rapid non-entry rescues or victim self-rescue is recognized; and a risk benefit analysis is performed. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **16 of 16** tasks being correctly performed.

No.	Tasks	Yes	No	
1	Establishes and utilizes an Incident Management System			
2	Ensures proper use of Personal Protective Equipment (PPE)			
3	Utilizes a personnel accountability system			
4	Performs size-up using observations, victims, bystanders			
5	Establishes safe operating zones			
6	Appropriately places barricades or scene control tape to limit access			
7	Implements appropriate atmospheric monitoring			
8	Provides for ventilation of the confined space(s)			
9	Controls sources of hazardous energy within the space and surroundings			
10	Identifies and safely controls all present and potential hazards			
11	Determines all potential victim locations			
12	Performs a risk/benefit analysis and evaluates rescue versus recovery			
13	Provides for non-entry and/or self-rescue of victim			
14	Evaluates rescue options			
15	Identifies needed resources to accomplish rescue/recovery			
16	Completes all tasks without compromising personal or team safety			
<b>Please indicate skill outcome</b>			<b>PASS</b>	<b>FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY CONFINED SPACE RESCUE TECHNICIAN SKILLS

<b>STATION B – Air Monitoring and Ventilation</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 7 Mandatory Station: JPRs 7.1.1, 7.1.2</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Directions:** You are dispatched to the scene of a confined space emergency. For this incident, you are to implement atmospheric monitoring, interpret the collected data, and establish ventilation in support of the rescue operations. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **12 of 12** tasks being correctly performed.

No.	Tasks	Yes	No
1	Ensures proper/continued use of Personal Protective Equipment (PPE)		
2	Selects appropriate air-monitoring equipment		
3	Checks and assures proper operation of selected equipment		
4	Provides a fresh air set-up or zeroes monitor per the manufacturer's recommendations		
5	Monitors general area of the confined space incident starting on the upwind side		
6	Monitors the atmosphere in the target space(s) at appropriate levels		
7	Records findings on entry permit or atmospheric monitoring log		
8	Selects appropriate ventilation equipment		
9	Assures proper operation of ventilation equipment		
10	Properly establishes positive pressure ventilation of space		
11	Monitors continuously the atmosphere in the space(s) and records findings		
12	Completes all tasks without compromising personal or team safety		
<b>Please indicate skill outcome</b>			
			<b>PASS    FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY CONFINED SPACE RESCUE TECHNICIAN SKILLS

<b>STATION C – Hazard Control</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 7 Mandatory Station: JPRs 7.2.3, 7.2.2</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Directions:** You are operating on the scene of a confined space rescue incident and are given the assignment of isolating all forms of hazardous energy (i.e., electrical, mechanical, pneumatic, hydraulic) in support of the rescue operation. You are to apply appropriate isolation techniques to the scene presented utilizing the equipment provided. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **7 of 7** tasks being correctly performed.

No.	Tasks	Yes	No
<b>1</b>	Ensures proper/continued use of Personal Protective Equipment (PPE)		
<b>2</b>	Identifies appropriately the sources of hazardous energy to be isolated		
<b>3</b>	Selects appropriate equipment and/or techniques to isolate		
<b>4</b>	Applies selected equipment or techniques to hazards to isolate/control hazards and render equipment/space safe in accordance with manufacturer's directions or procedures  Equipment/Techniques Utilized (Mark as appropriate) _____ Lock-Out/Tag-Out _____ Double Block and Bleed _____ Misalignment _____ Blinding/Blanking		
<b>5</b>	Confirms the hazard(s) is isolated		
<b>6</b>	Informs the Incident Commander when tasks are complete		
<b>7</b>	Completes all tasks without compromising personal or team safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY CONFINED SPACE RESCUE TECHNICIAN SKILLS

<b>STATION D – Entry Operations</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 7 Mandatory Station: JPRs 7.1.2, 7.1.5</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Directions:** You are operating on the scene of a confined space rescue incident and are tasked with entering the space to perform a rescue operation. Functioning as a team you are to perform pre-entry medical screening of all entrants, determine rescuer suitability, properly don all related equipment, enter the confined space and locate the victim(s). Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **15 of 15** tasks being correctly performed.

No.	Tasks	Yes	No
1	Ensures proper/continued use of Personal Protective Equipment (PPE)		
2	Performs pre-entry medical screening of rescuers to include baseline pulse, respiration, blood pressure, and general health		
3	Rescuers not suitable for entry operations identified (if applicable)		
4	Appropriate fall arrest/retrieval equipment selected and donned		
5	Appropriate respiratory protection (SCBA, SABA) selected and donned		
6	Communications plan and/or equipment identified		
7	Emergency evacuation signal identified		
8	Personal lighting equipment identified and utilized		
9	Retrieval line attached to harness and running end secured outside		
10	Pre-entry briefing performed		
11	Appropriate point of entry selected		
12	Opening negotiated and space entered without significant difficulty		
13	Victim contacted and communication established		
14	Incident command notified of status		
15	Completes all tasks without compromising personal or team safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY CONFINED SPACE RESCUE TECHNICIAN SKILLS

<b>STATION E - Victim Assessment, Packaging &amp; Removal</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 7 Mandatory Station: JPRs 7.1.4, 7.1.3, 7.1.5</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Directions:** You are operating on the scene of a confined space rescue incident. You contacted the victim after initial entry operations and are now tasked with assessing, treating as appropriate, packaging and removing the victim from the space. Do you have any questions?

**Performance Outcome:** Pass / Fail will be determined by **9 of 9** tasks being correctly performed.

No.	Tasks	Yes	No
<b>1</b>	Ensures proper/continued use of Personal Protective Equipment (PPE)		
<b>2</b>	Patient contact made and communications established		
<b>3</b>	Patient assessed for life threatening injuries		
<b>4</b>	Appropriate treatment initiated based on patient's condition		
<b>5</b>	Appropriate removal device or method selected		
<b>6</b>	Patient packaged and immobilized as best possible given the size and the configuration of space		
<b>7</b>	Appropriate use of rescue/retrieval equipment		
<b>8</b>	Prevents excessive aggravation of patient's injuries in the removal from the c-space		
<b>9</b>	Completes all tasks without compromising personal or team safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY CONFINED SPACE RESCUE TECHNICIAN SKILLS

<b>STATION F - Rescuer Removal and Termination</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 7 Mandatory Station: JPR 7.1.5</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b>  <div style="text-align: center;"> <input type="checkbox"/> <b>Initial</b>  <input type="checkbox"/> <b>Retest</b> </div>

**Directions:** You have just completed the removal of a patient from a confined space rescue incident. Working as a team, you are to remove all entrants from the space and properly terminate the incident. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **12 of 12** tasks being correctly performed.

No.	Tasks	Yes	No
1	Ensures proper/continued use of Personal Protective Equipment (PPE)		
2	Maintains contact and communications with rescuers/entrants		
3	Assures retrieval line/system is attached correctly and entrants are extricated from a space in the selected transfer device		
4	Operates correctly the selected retrieval system		
5	Retrieval lines and air hoses managed during retrieval process		
6	All entrants removed from space and disconnected from retrieval system		
7	Personnel and equipment decontaminated		
8	Patient information relayed to EMS personnel		
9	All equipment returned to state of readiness		
10	Space is secured and scene is rendered safe		
11	Confined space entry permit and/or other documentation completed		
12	Completes all tasks without compromising personal or team safety		
<b>Please indicate skill outcome</b>			
			<b>PASS    FAIL</b>

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## PENNSYLVANIA STATE FIRE ACADEMY CONFINED SPACE RESCUE TECHNICIAN SKILLS

<b>STATION G - Pre-Plan a Confined Space Incident</b>		<b>Reference NFPA 1006 (2013 Edition), Chapter 7 Mandatory Station: JPRs 7.2.1, 7.2.2</b>	
<b>Test Site</b>	<b>Test Date</b>	<b>Candidate #</b>	<b>Check the Test Type</b> ____ <b>Initial</b> ____ <b>Retest</b>

**Directions:** Given a scenario involving an injured entrant, pre-plan a confined space incident given applicable guidelines, regulations and preplan forms. Then use the pre-plan to assess the incident and identify rescue needs including additional resources. Do you have any questions?

**Performance Outcome:** Pass / Fail is determined by **10 of 10** tasks being correctly performed.

No.	Tasks	Yes	No
<b>1</b>	Site specific hazards and isolation methods are identified and documented		
<b>2</b>	All ingress and egress types and locations are identified and documented		
<b>3</b>	Drafts/Draws a sketch of confined space		
<b>4</b>	Resources are identified and documented		
<b>5</b>	Appropriate PPE is identified		
<b>6</b>	Risk benefit analysis is done		
<b>7</b>	Interviews were conducted		
<b>8</b>	Monitoring equipment identified		
<b>9</b>	Rescue systems for entry and retrieval for rescuers and victims identified/evaluated		
<b>10</b>	Completes all tasks without compromising personal or team safety		
<b>Please indicate skill outcome</b>		<b>PASS</b>	<b>FAIL</b>

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