



PENNSYLVANIA STATE FIRE ACADEMY

TRENCH RESCUE AWARENESS SKILL STATIONS

****Attention:** All certification candidates are required to have an established and up to date user portal account in the PA State Fire Academy 's Acadis Learning Management System prior to participating in ANY certification testing opportunity. Please log in to your Acadis portal account and update all personal information before submitting your certification application. (Access can be gained through the OSFC website – Training and Certification Portal).

Skill Stations

NFPA 1006 Trench Rescue Awareness – Chapter 12 (2021 Edition)

Station A	Size Up (1 Evaluator)	Mandatory Station
Station B	Assist Rescue Team: Non-Entry Rescue (1 Evaluator)	Mandatory Station

All skills in the Trench Rescue Awareness Level Skills Menu are Mandatory. All skills in the Trench Rescue Awareness level MUST be passed with 100% of tasks being checked "YES." Any task checked "NO" in a skill station is a failure of that skill.

Minimum PPE for Trench Rescue Testing:

- Helmet/hardhat with chinstrap
- ANSI/ASTM eye protection
- Gloves
- Safety toed footwear



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STATION A – Size Up		Reference NFPA 1006 (2021 Edition), Chapter 12 Mandatory Station: JPRs 12.1.1, 12.1.3, 12.1.4, 12.1.5, 12.1.6	
Test Site	Test Date	Candidate #	Check the Test Type ____ Initial ____ Retest

Evaluator Note: Station scenario will be a single worker that fell into an open trench.

Directions: Given a trench rescue incident and background information, the candidate will size up the incident, identify incident hazards, initiate isolation and scene control procedures, and recognize the need for technical rescue resources so that the incident scene is isolated and controlled, additional resource needs are identified and requested, and incident hazards are communicated.

Performance Outcome: Pass / Fail is determined by **ALL** tasks are correctly performed.

No.	Tasks	Yes	No
1	Recognizes incident hazards and initiates isolation procedures		
2	Gathers relevant information from on-scene competent person		
3	Identifies the number of victims, victim condition, and victim location(s)		
4	Performs a size-up and provides an initial report to incoming units		
5	Identifies the type of trench collapse		
6	Attempts/establishes communications with the victim		
7	Initiates hazard control actions in the area around the trench		
8	Requests additional rescue resources		
9	Completes a tactical worksheet		
10	Transfers command to first arriving supervisor		
Please indicate skill outcome		PASS	FAIL

Evaluator Comments: _____

Evaluator Signature: _____ **Evaluator #** _____



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STATION B – Assist Rescue Team: Non-Entry Rescue		Reference NFPA 1006 (2021 Edition), Chapter 12 Mandatory Station: JPRs 12.1.2, 12.1.5, 12.1.7	
Test Site	Test Date	Candidate #	Check the Test Type _____ Initial _____ Retest

Evaluator Note: Station scenario will be a single worker that fell into an open trench.

Directions: Given a trench rescue scenario, ground pads, straight ladder, self-rescue tools, and rescue PPE, the candidate will perform a non-entry rescue/victim self-rescue, on a victim located within a trench, so that the victim's self-rescue maneuver is completed in a safe and controlled manner and without further injury to the victim or bystanders.

Performance Outcome: Pass / Fail is determined by **ALL** tasks are correctly performed.

No.	Tasks	Yes	No
1	Establishes ICS, controls access and establishes work zones		
2	Confirms pertinent information with the on-scene job supervisor/foreman		
3	Conducts an incident briefing		
4	Communicates a non-entry/victim self-rescue plan to the job supervisor and victim		
5	Controls hazards prior to non-entry/victim self-rescue operation		
6	Initiates a non-entry/victim self-rescue plan and monitors the process		
7	Continues to monitor hazards and update incident command until the victim is clear from the trench		
8	Completes assignment in a safe and controlled manner		
Please indicate skill outcome		PASS	FAIL

Evaluator Comments: _____

Evaluator Signature: _____ **Evaluator #** _____



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Trench Rescue Tactical Worksheet

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INITIAL ON-SCENE OPERATIONS

APPROACH FROM HEAD OF TRENCH ☐ Ladders ☐ Edge Protection ☐ Clear Spoil (2' Back) ☐ Assign Safety Officer
Date _____ Start Time _____ Incident # _____
Number of Victims _____ Time Last Seen _____ Shut Down All Equipment/Evaluate Workers _____
Purpose of Trench _____ Depth of Trench _____
Site Location _____
Victim Location _____ Victim Marking _____ Victim Protection _____ Victim Condition _____

TRENCH HAZARDS

☐ Spoil-In ☐ Shear-In ☐ Slough-In ☐ Lip-In ☐ Shoring Failure ☐ Other _____
☐ Water ☐ Vibration ☐ Soil Conditions ☐ Hazmat ☐ Utilities ☐ USA Markings
☐ Atmospheric Monitoring: % O₂ _____ % LEL _____ CO _____ H₂S _____

PRE-ENTRY OPERATIONS

☐ Pre-Entry Briefing ☐ Fall Protection ☐ PPE ☐ Clear Spoil ☐ LOTO
Edge Protection: ☐ Planks (2" x 12") ☐ Plywood ☐ OSB ☐ Other _____
☐ Ladders ☐ Monitoring ☐ Ventilation ☐ Lighting ☐ Bridges ☐ Perimeter

PROTECTIVE SYSTEMS

☐ Trench Data Worksheets ☐ Panels ☐ Struts ☐ Walers ☐ Hogsheads ☐ Supplemental Sheeting and Shoring ☐ 2-4-2
Shoring Type: ☐ Timber ☐ Pipe/Post Screw ☐ Pneumatic ☐ Hydraulic ☐ Box/Shield

VICTIM RESCUE AND RECOVERY

Soil Removal: ☐ Shovels ☐ Buckets ☐ Air Knife ☐ Vacuum Truck ☐ Other _____
Victim Packaging: ☐ Backboard ☐ Rescue Litter ☐ LSP Half-Back ☐ Spec Pak ☐ Wristlets ☐ SKED ☐ Victim Harness
☐ Hasty Chest Harness ☐ Other _____
Victim Extrication: ☐ Ladder Slide ☐ Moving Ladder Slide ☐ High Point Anchor

SCENE MANAGEMENT

Incident Commander _____
Operations _____
Rescue Group Supervisor _____
Site Safety Officer _____
Cutting Station _____
Rescue Squad 1 Leader _____ Rescue Squad 2 Leader _____
Rescue Squad 3 Leader _____ Rescue Squad 4 Leader _____
Logistics _____
Medical Group _____
Industry or Contractor's Name _____
Company Address _____ City/State _____
Phone _____ Reporting Party/Contact Person _____



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INCIDENT TERMINATION

☐ Personnel Accountability ☐ Equipment Removed ☐ Scene Secured ☐ Debriefing ☐ OSHA Contacted

Time _____ Date _____ Rescue Group Supervisor Signature _____

MONITOR LOG

TIME	LEVEL	%O ₂	%LEL	CO	H ₂ S

Monitoring Officer _____

SCENE DIAGRAM/NOTES

Rescue Group Supervisor Signature: _____

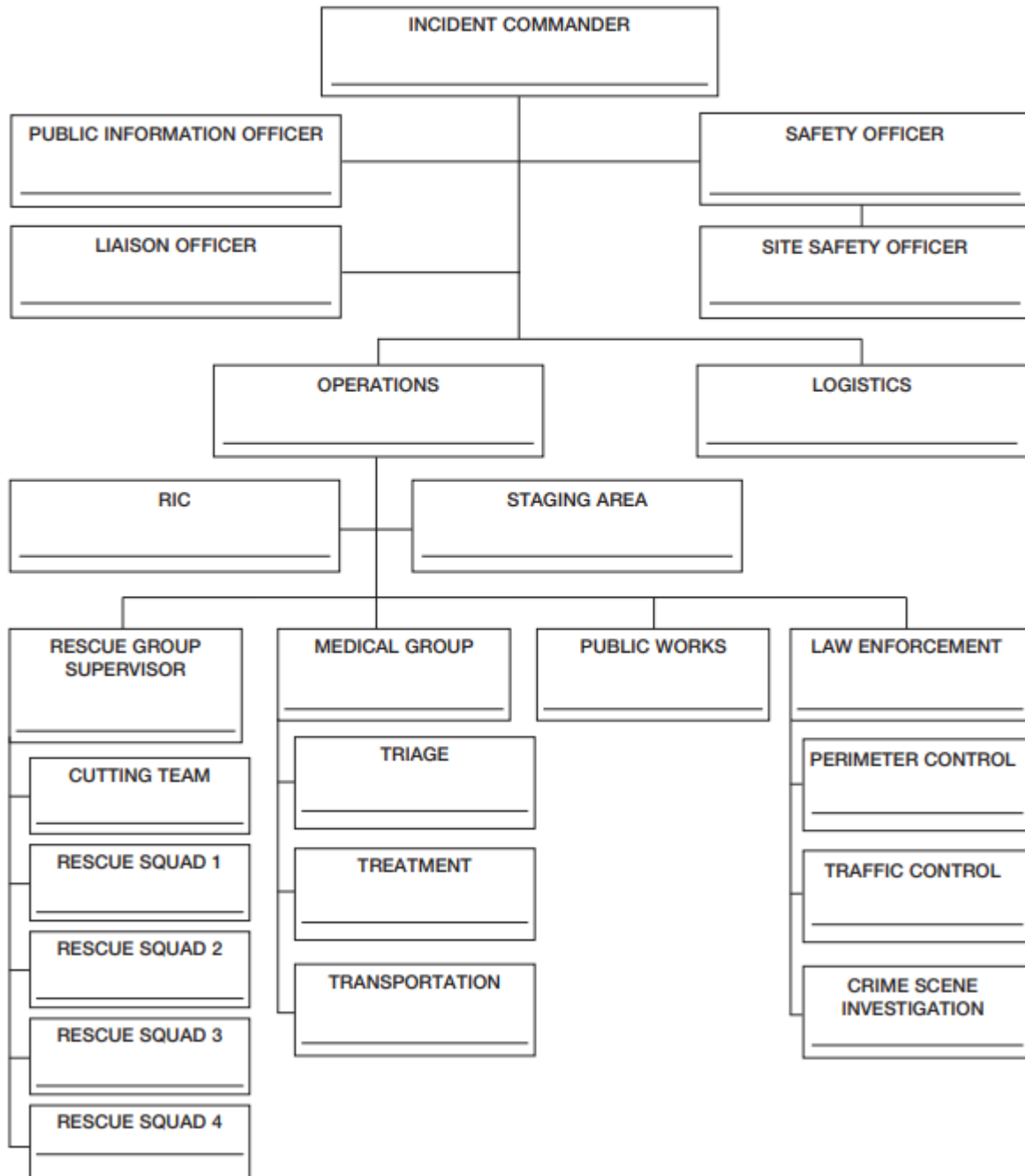


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Incident Command Organizational Chart

INCIDENT: _____ DATE: _____ LOCATION: _____





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Trench Scenario Critique Worksheet

Type of trench _____

Rescue group supervisor _____

RESPONSIBLE PARTY:

What type of work? _____

What happened? _____

How many workers? _____

How long buried? _____

Where buried? _____

How deep? _____

Hazards? _____

Resources at site? _____

☐ Size-up: six sided ☐ Approach: Trench End/Head

☐ Trench/Soil Conditions

PRE-ENTRY OPERATIONS:

- ☐ Pre-entry briefing
- ☐ Monitor
- ☐ Ventilation
- ☐ Mark/protect victim
- ☐ Mark/secure Hazards
- ☐ Ladders: time _____
- ☐ Clear spoil: time _____
- ☐ Edge protection: time _____
- ☐ Assign safety officer: time _____

TRENCH OPERATIONS:

- ☐ Assign rescue squads
- ☐ Shoring system plan:
 - ☐ Placement
 - ☐ All squads notified
 - ☐ Good teamwork
- ☐ Arriving Units:
 - ☐ Hazard communication
 - ☐ Assignments
- ☐ Logistics:
 - ☐ Resources
 - ☐ Cutting station

SHORING SYSTEM CONSTRUCTION:

- ☐ Standard systems: 2-4-2
- ☐ Waler systems
- ☐ End shore systems
- ☐ Supplemental sheeting/shoring
- ☐ Positive connections/nailing
- ☐ Backfill:
 - ☐ Wedges/cribbing ☐ Air cushions
 - ☐ Sandbags ☐ Salvage cover/spoil

VICTIM RECOVERY:

- ☐ Soil removal
- ☐ Victim packaging
- ☐ Victim extrication
- ☐ Victim #1: time out _____
- ☐ Victim #2: time out _____
- Time completed _____