PENNSYLVANIA STATE FIRE ACADEMY
STRUCTURAL COLLAPSE RESCUE OPERATIONS 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 Structural Collapse Rescue Operations – Chapter 6 (2021 Edition)

Station A	Collapse Rescue: IAP, S&R, Shoring, & Victim Removal (2 Evaluators)	Mandatory Station
Station B	Structural Collapse Incident Command (1 Evaluator)	Mandatory Station
Station C	Structural Collapse Safety Officer (1 Evaluator)	Mandatory Station
Station B	Heavy Object: Lift & Move (2 Evaluator)	Mandatory Station
Station C	Maintenance: PPE & Equipment (1 Evaluator)	Mandatory Station

All skills in the Structural Collapse Rescue Operation Level Skills Menu are Mandatory. All skills in the Structural Collapse Operations 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.

HOWEVER, skill A is broken into "SECTIONS." Candidates who are unsuccessful at completing a section of skill A will only have to retest on the section they failed. Candidates who are unsuccessful at two or more sections in Skill Station A, "Collapse Rescue: IAP, S&R, Shoring, & Victim Removal," WILL HAVE to retest the entire skill station.

Minimum PPE for Structural Collapse Rescue testing:

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

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STATION A – Collapse Rescue: S&R, Shoring, & Victim Removal		**Reference NFPA 1006 (2021 Edition), Chapter 6 Mandatory Station: JPRs 6.2.1, 6.2.2, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.11, 6.2.15**	
Test Site	**Test Date**	**Candidate #**	**Check the Test Type** **_____Initial _____Retest**

Evaluator Note: The station scenario will be a collapsed structure incident with one (1) entrapped/pinned victim located within a light-frame/URM structure.

Evaluator Note: All skills in the Structural Collapse Rescue Operation Level Skills Menu are Mandatory. All skills in the Structural Collapse Rescue Operations level MUST be passed with 100% of tasks being checked "YES" Any task checks "NO" in a skill station is a failure of that skill.

HOWEVER, skill A is broken into "SECTIONS." Candidates who are unsuccessful at completing a section of skill A will only have to retest on the section they failed. Candidates who are unsuccessful at two or more sections in Skill Station A, "Collapse Rescue: IAP, S&R, Shoring, & Victim Removal," WILL HAVE to retest the entire skill station.

Evaluator Note: Each team must build one shore from the following lists. ONE shore from each category MUST be built by each team. At least one shore MUST be made from wood. ***MARK SHORES CONSTRUCTED:***

- ***ONE VERTICAL SHORE – T-Spot_____, Double T- Spot_____, or Vertical shore_____ AND***
- ***ONE HORIZONTAL SHORE – Window_____, Door_____, or Horizontal shore_____ AND***
- ***ONE RAKER SHORE – Flying Raker_____, Solid Sole_____, Split Sole raker shore_____***

Evaluator NOTE: Teams will be made up of 10 personnel. Each person MUST perform the duties of one of the Essential Job Positions (EJP) – Either the IC or the SO. At the start of the evolution, each member of the team will choose one card from a deck of cards. Eight of those cards will say "Rescue Team Personnel," one card will say "Incident Commander," and one will say "Safety Officer." Candidates will choose a card and that will be their assignment for the portion of the evolution. Each evolution will be broken into five sections. At each section change, the candidates who did not act as IC or SO will redraw cards from the deck. Candidates who have acted as the IC and SO will be assigned to the Rescue Team Personnel for the rest of the evolution. Card draws will occur at the following times: (1) Start of the evolution, (2) change from raker system to horizontal shore, (3) change from horizontal shore to vertical shore, (4) change from vertical shore to breaching operations, (5) change from breaching operation to patient care, removal and termination of the incident.

Scenario Information: The scenario for this evolution will be a collapsed light frame construction/URM structure. Teams will have to start the evolution by (1) building a raker system from the list above, then (2) build a horizontal shore to gain entry into the structure, (3) build a vertical shore from the list above, (4) breach light frame construction/URM building material in such a way as to be able to bring a patient through the breach, and (5), safely remove the patient from entrapment and move the patient out of the collapsed structure and terminate the incident. Candidates who are acting as IC and SO for their portion of the skill will be graded with Skill AB and C respectively. The IC and the ISO must complete the required paperwork for their portion of the evolution.

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STATION A – Collapse Rescue: S&R, Shoring, & Victim Removal		**Reference NFPA 1006 (2021 Edition), Chapter 6 Mandatory Station: JPRs 6.2.1, 6.2.2, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 6.2.11, 6.2.15**	
Test Site	**Test Date**	**Candidate #**	**Check the Test Type** _____**Initial** _____**Retest**

Directions: Given a light-framed structural collapse rescue incident and background information, the candidate, working as a member of a team, will identify incident hazards, initiate isolation and scene control procedures, utilize FEMA Marking System, stabilize a light-frame/URM structure, search within the structure based on FEMA markings already located on building, locate and free an entrapped victim, and package a victim for removal, so that the incident scene is isolated and controlled, shoring is adequate for the material and collapse type, materials are cribbed throughout lifting maneuvers, and the victim is properly freed and packaged for removal.

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

No.	Tasks	Yes	No
	Section 1: Shore, Breach, & Search		
1	Select and utilize the proper type of PPE and respiratory protection		
2	Continuously assess atmospheric conditions and uses ventilation as required		
3	Stabilizes/shores a light-weight construction/URM structure based on incident needs		
4	Breaches light-weight construction/URM structural component(s) based on victim/patient condition and location		
5	Conducts a search for victims trapped within a light-weight construction/URM structure (Must utilize one technological device)		
	Fiber Optic _____ Acoustic/seismic _____ Thermal imaging/FLIR _____		
6	FEMA marking system utilized		
7	Provides status reports during tactical operations		
8	All tasks were completed in a safe and controlled manner		
	Section 2: Victim Rescue		
9	Ensures rescuers change into proper BSI once patient contact is made		
10	Assesses victim condition and entrapment mechanism		
11	Releases the victim from entrapment by structural debris/components		
12	Cribs and stabilizes throughout all lifting operations		
13	Packages victim(s) for removal from the collapse		
14	Safely removes the victim from the collapse area to EMS		
15	All tasks were completed in a safe and controlled manner		
	Please indicate skill outcome	**PASS**	**FAIL**

Evaluator Comments: _____

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Evaluator Signature: _____ **Evaluator #**_____

PENNSYLVANIA STATE FIRE ACADEMY
STRUCTURAL COLLAPSE RESCUE OPERATIONS SKILL STATIONS

STATION B – Structural Collapse Incident Command		Reference NFPA 1006 (20?21 Edition), Chapter 6 Mandatory Station: JPRs 6.2.1, 6.2.2, 6.2.3, 6.2.4, 6.2.15	
Test Site	**Test Date**	**Candidate #**	**Check the Test Type** _____**Initial** _____**Retest**

Evaluator Note: Evaluator NOTE: Teams will be made up of 10 personnel. Each person MUST perform the duties of one of the Essential Job Positions (EJP) – Either the IC or the SO. At the start of the evolution, each member of the team will choose one card from a deck of cards. Eight of those cards will say "Rescue Team Personnel," one card will say "Incident Commander," and one will say "Safety Officer." Candidates will choose a card and that will be their assignment for the portion of the evolution. Each evolution will be broken into five sections. At each section change, the candidates who did not act as IC or SO will redraw cards from the deck. Candidates who have acted as the IC and SO will be assigned to the Rescue Team Personnel for the rest of the evolution. Card draws will occur at the following times: (1) Start of the evolution, (2) change from raker system to horizontal shore, (3) change from horizontal shore to vertical shore, (4) change from vertical shore to breaching operations, (5) change from breaching operation to patient care, removal and termination of the incident.

Scenario Information: The scenario for this evolution will be a collapsed light frame construction/URM structure. Teams will have to start the evolution by (1) building a raker system from the list above, then (2) build a horizontal shore to gain entry into the structure, (3) build a vertical shore from the list above, (4) breach light frame construction/URM building material in such a way as to be able to bring a patient through the breach, and (5), safely remove the patient from entrapment and move the patient out of the collapsed structure and terminate the incident. Candidates who are acting as IC and SO for their portion of the skill will be graded with Skill B and C respectively. The IC and the ISO must complete the required paperwork for their portion of the evolution.

Directions: You are dispatched to the scene of a light-frame/URM building collapse. Acting as the Incident Commander, conduct a size-up of the scene, determine potential victim locations, and develop and implement a collapse rescue Incident Action Plan (IAP) using an ICS 201 Form. Your size-up and IAP should address the following areas: Existing and potential conditions, hazards, construction and occupancy type, type of collapse, need for rescue, scene security, potential victim locations, needed resources, hazard mitigation objectives, and rescue objectives. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **All** of the 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 (6 sided) using observations, victims, bystanders, witnesses and any other available site information		
5	Establishes safe operating zones and identifies a security perimeter		
6	Determines construction type		
7	Determines building occupancy type		
8	Determines collapse type/pattern		
9	Identifies potential hazards		
10	Hazard control objectives are prioritized		

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STATION B – Structural Collapse Incident Command		**Reference NFPA 1006 (20?21 Edition), Chapter 6 Mandatory Station: JPRs 6.2.1, 6.2.2, 6.2.3, 6.2.4, 6.2.15**	
Test Site	**Test Date**	**Candidate #**	**Check the Test Type** _____**Initial** _____**Retest**

11	Determines potential victim number, condition, and locations based on collapse type		
12	Performs a risk/benefit analysis and evaluates rescue vs. recovery considerations		
13	Determines rescue objectives and options		
14	Identifies and requests additional needed resources		
15	Establishes a building evacuation signal/plan		
16	Identifies need for Rapid Intervention Crew/Team		
17	Completes initial IAP utilizing ICS 201 Form in collaboration with the ISO		
18	Conducts team briefing in collaboration with the ISO		
19	Terminates the incident		
20	Completes all tasks without compromising personal or team safety		
	Please indicate skill outcome	**PASS**	**FAIL**

Evaluator Comments: _____

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Evaluator Signature: _____ **Evaluator #**_____

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STATION C – Structural Collapse Safety Officer		Reference NFPA 1006 (2021 Edition), Chapter 6 Mandatory Station: JPRs 6.2.1, 6.2.2, 6.2.3, 6.2.4 6.2.15	
Test Site	**Test Date**	**Candidate #**	**Check the Test Type** **_____Initial _____Retest**

Evaluator Note: Evaluator NOTE: Teams will be made up of 10 personnel. Each person MUST perform the duties of one of the Essential Job Positions (EJP) – Either the IC or the SO. At the start of the evolution, each member of the team will choose one card from a deck of cards. Eight of those cards will say "Rescue Team Personnel," one card will say "Incident Commander," and one will say "Safety Officer." Candidates will choose a card and that will be their assignment for the portion of the evolution. Each evolution will be broken into five sections. At each section change, the candidates who did not act as IC or SO will redraw cards from the deck. Candidates who have acted as the IC and SO will be assigned to the Rescue Team Personnel for the rest of the evolution. Card draws will occur at the following times: (1) Start of the evolution, (2) change from raker system to horizontal shore, (3) change from horizontal shore to vertical shore, (4) change from vertical shore to breaching operations, (5) change from breaching operation to patient care, removal and termination of the incident.

Scenario Information: The scenario for this evolution will be a collapsed light frame construction/URM structure. Teams will have to start the evolution by (1) building a raker system from the list above, then (2) build a horizontal shore to gain entry into the structure, (3) build a vertical shore from the list above, (4) breach light frame construction/URM building material in such a way as to be able to bring a patient through the breach, and (5), safely remove the patient from entrapment and move the patient out of the collapsed structure and terminate the incident. Candidates who are acting as IC and SO for their portion of the skill will be graded with Skill B and C respectively. The IC and the ISO must complete the required paperwork for their portion of the evolution.

Directions: The candidate will be given a part of the scenario to act as the safety officer. Using forms and tactical worksheets, the candidate will evaluate the situation and make changes as appropriate to ensure the safety of the members operating. In addition, will communicate with the IC to collaborate on any situation and safety changes to be made. A formal announcement will be made when the Safety officer changes.

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

No.	Tasks	Yes	No
1	Works within the Incident Command System		
2	Identifies any additional safety requirements or information needed from size-up		
3	Conduct safety briefing		
4	Briefs audible emergency alerting: Evacuate- 3 short blasts (1 second each), Cease operations- 1 Long blast (3 Second duration), Resume operations – 1 Long and 1 Short blast		
5	Identifies hazards that can harm rescuers		
6	Limits accessibility by setting up control zones		
7	Ensures entry control points are established		
8	Ensures readiness of rapid intervention crew		
9	Identifies conditions that would require the incident to stop, alter, or suspend operations based on imminent threats/danger to responders		

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STATION C – Structural Collapse Safety Officer		**Reference NFPA 1006 (2021 Edition), Chapter 6 Mandatory Station: JPRs 6.2.1, 6.2.2, 6.2.3, 6.2.4, 6.2.15**	
Test Site	**Test Date**	**Candidate #**	**Check the Test Type** _____**Initial** _____**Retest**

10	Identifies secondary collapse potential		
11	Ensures shoring is within design load and applicable standards		
12	Establishes a monitoring system to ensure structural stability throughout evolution		
13	Ensures rescue team members continually check shoring for stability and makes adjustments for tightness and contact		
14	Ensures atmospheric monitoring is in place as applicable to the situation		
15	Monitors weather conditions		
16	Ensures proper respiratory protection is used based on the operation		
17	Ensures rehab area is set up and operating, and monitors work/rest cycles		
18	Ensures that RIT is in place and understands their duties		
19	Ensures face to face communication for relief		
20	All tasks were completed safely		
	Please indicate skill outcome	**PASS**	**FAIL**

Evaluator Comments: _____

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Evaluator Signature: _____ **Evaluator #**_____

PENNSYLVANIA STATE FIRE ACADEMY
STRUCTURAL COLLAPSE RESCUE OPERATIONS SKILL STATIONS

STATION D – Heavy Object: Lift & Move		Reference NFPA 1006 (2021 Edition), Chapter 6 Mandatory Station: JPRs 6.2.9, 6.2.10, 6.2.12	
Test Site	**Test Date**	**Candidate #**	**Check the Test Type** _____**Initial** _____**Retest**

Evaluator Note: Station scenario will be lifting, cribbing, and moving a heavy object at a collapsed structure incident. Candidates will move a (2000 lb. concrete block 15 feet, lift it to a height of three feet off of the ground, and then return it to the starting point.)

Directions: Given a structural collapse rescue incident and a heavy object to lift, crib, and move, the candidate, working as a member of a team, will assess the task, identify incident hazards, select and utilize required resources and equipment, and initiate lifting, cribbing, and moving strategies, so that the object is safely lifted, cribbed throughout the lifting and moving maneuver, and controlled and stable during the move.

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

No.	Tasks	Yes	No
1	Identify resource needs and required equipment for the lifting maneuver		
2	Develop and implement a plan for lifting, cribbing, and moving a heavy object		
3	Estimates the weight of the object to be moved		
4	Object is lifted in a safe and controlled manner		
5	Object is cribbed and stable throughout the maneuver		
6	Object is moved using pipes/rollers in a safe and controlled manner		
7	Object move speed and stability is maintained		
8	Object is safely positioned and secured at the designated resting site		
9	Assignment completed in a safe and controlled manner		
	Please indicate skill outcome	**PASS**	**FAIL**

Evaluator Comments: _____

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Evaluator Signature: _____ **Evaluator #**_____

PENNSYLVANIA STATE FIRE ACADEMY
STRUCTURAL COLLAPSE RESCUE OPERATIONS SKILL STATIONS

STATION E – Maintenance: PPE & Equipment		**Reference NFPA 1006 (2021 Edition), Chapter 6 Mandatory Station: JPRs 6.2.13, 6.2.14**	
Test Site	**Test Date**	**Candidate #**	**Check the Test Type _____Initial _____Retest**

Evaluator Note: Each candidate will inspect their own helmet, gloves, eye protection, and respiratory protection. They will describe how to inspect, clean and dry each piece of equipment. Then candidates will inspect and describe how to clean one piece of equipment from each category listed. Candidates will finish the station by filling out logs for each piece of PPE and equipment

Directions: Given structural collapse rescue PPE, respiratory protection, and collapse rescue equipment, the candidate will inspect, clean, and restore as needed rescue PPE, respiratory protection, and equipment, so that PPE and equipment is operational and in a state of readiness, all deficiencies are corrected, or damaged items are replaced, and manufacturer's recommendations are followed.

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

No.	PPE	Yes	No
1	Cleans and inspects rescue PPE/respiratory equipment per manufacturer's recommendations		
2	Sanitizes and dries PPE/respiratory equipment per manufacturer's recommendations		
3	Replaces/restores damaged/defective components or tags out of service as required		
4	Restores PPE/respiratory equipment to operational readiness		
5	Completes applicable logs and records		
	Rescue Equipment		
6	Cleans and inspects rescue equipment in accordance with manufacturer's recommendations		
	Electric Power Equipment _____ Gas Powered Equipment _____ Strut Component System _____ Air Bag System _____		
7	Checks consumable components for wear and operational safety or completeness		
8	Replaces/restores damaged/defective components or tags out of service as required		
9	Restores equipment to operational readiness		
10	Completes applicable logs and records (see attached copy of log to be used at skill station)		
11	Assignment completed in a safe and controlled manner		
	Please indicate skill outcome	**PASS**	**FAIL**

Evaluator Comments: _____

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Evaluator Signature: _____ **Evaluator #**_____

Equipment Checklist and Station Log for Structural Collapse Response

This checklist ensures that critical personal protective equipment (PPE) is operational for structural collapse incidents. Regular inspection intervals are essential for compliance with the Pennsylvania State Fire Academy and NFPA standards

Date: _____

Inspected by: _____

Incident Type: Structural Collapse_____

1. Helmets

- **Helmet ID Number:**
- **Condition:**
  - Clean
  - Free from cracks or dents
  - Face shield or goggles intact
  - Chin strap functional

 Manufacturer Date:

- **Inspection Frequency**
-
  - Weekly
  - Monthly
  - Pre-Incident
- **Notes/Repairs Needed:**_____
  _____
  _____
  _____

2. Gloves

- **Glove Type:**
- **Condition:**
  - Free from cuts or tears
  - Proper fit (not too loose/tight)
  - Good dexterity maintained
  - Thermal and moisture barrier intact

- **Inspection Frequency:**

  - Weekly
  - Monthly
  - Pre-Incident

  - **Notes/Repairs Needed:**_____

3. Eye Protection

- **Type (Goggles/Safety Glasses):**
- **Condition:**
  - Lenses clear and scratch-free
  - Straps functional
  - Fit properly with helmet

- **Inspection Frequency:**

  - Weekly
  - Monthly
  - Pre-Incident

- **Notes/Repairs Needed**_____

4. Respiratory Protection

- **Type (SCBA/Filter Mask):**
- **Condition:**
  - Clean and free from debris
  - Straps in good condition
  - Regulator functioning
  - Seals intact (for masks)
  - **Air Cylinder Pressure (for SCBA):** _____ psi
  - PASS device functioning

- **Inspection Frequency:**

- Weekly
- Monthly
- Pre-Incident

- **Notes/Repairs Needed:**_____
_____
_____
_____
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5. General Station Log

- **Station Activity:**
  - Equipment Checked
  - Drills Conducted
  - Maintenance Performed
- **Issues Noted:**
- **Repairs Conducted:**
- **Additional Comments:**

Signature of candidate performing the inspection: _____

Candidate Number_____

Given: An incident and specific incident information, size-up information, the type of construction and occupancy, the time of day, and collapse pattern, an action plan, a light frame and URM construction collapsed structure, PPE specific to the incident, isolation barriers, a structural collapse tool kit

that existing and potential conditions within the structure and the immediate periphery are evaluated, needed resources are defined, hazards are identified, construction and occupancy types are determined, collapse type is identified if possible, the need for rescue is assessed, a scene security perimeter is established, and the size-up is conducted within the scope of the incident management system, that search areas are established and victims can be located, that initial size-up information is utilized, an incident management system is incorporated, existing and potential conditions within the structure and the immediate periphery are included, specialized resource needs are identified, work perimeters are determined, collapse type/category and associated hazards are identified, construction and occupancy types are determined, incident objectives are established, and scene security measures are addressed, that pertinent information is used, an incident management system is established and implemented, monitoring of dynamic conditions internally and externally is established, specialized resources are requested, hazards are mitigated, victim rescue and extraction techniques are consistent with collapse and construction type, and perimeter security measures are established, that rescuers and bystanders are protected and accounted for during termination operations; the party responsible is notified of any modification or damage created during the operational period; documentation of loss or material use is accounted for, scene documentation is performed, scene control is transferred to a responsible party; potential or existing hazards are communicated to that responsible party; debriefing and post incident analysis and critique are considered, and command is terminated.