

# RESCUE TECHNICIAN: TRENCH RESCUE I/II

## SKILL SHEET PACKAGE

Based on *NFPA 1006: Standard for Technical Rescue Professional Qualifications*, 2013 Edition.



## ALABAMA FIRE COLLEGE

JUNE 2014  
REVISED 02/10/17

# ALABAMA FIRE COLLEGE

## RT: Trench I/II

### Instructional JPR Verification Sheet

Full Name: \_\_\_\_\_ Fire Department: \_\_\_\_\_

**This Instructional JPR Verification Sheet is to be used in conjunction with the Alabama Fire College RT: Trench I/II Skill Sheets. These skills meet all the requirements of NFPA 1006, *Standard for Technical Rescuer Professional Qualifications*, 2013 edition. Each of these skills should be taught and assessed during the course. This form must be submitted by the Instructor for Certification.**

Skill Sheet	Primary Task	JPR(s) Covered
<b>Level I</b>		
TI-1	Size-Up of a Collapsed Trench	8.1.1
TI-2	Implement a Trench Emergency Action Plan	8.1.2
TI-3	Implement Support Operations	8.1.3
TI-4	Support a Non-Intersecting Straight Wall Trench	8.1.4
TI-5	Release a Victim from Soil Entrapment-Non-Intersecting Trench	8.1.5
TI-6	Remove Victim from a Trench	8.1.6
TI-7	Disassemble Support Systems	8.1.7
<b>Level II</b>		
TII-8	Support Intersecting Trench	8.2.1
TII-9	Install Sheeting and Shoring	8.2.2
TII-10	Construct Load Stabilization System	8.2.3
TII-11	Lift a Load	8.2.4
TII-12	Coordinate Use of Heavy Equipment	8.2.5
TII-13	Release Victim from Entrapment by Collapsed Trench	8.2.6
Course Location:		Course Dates:
Instructor Printed Name:		Instructor Signature:
Candidate Printed Name:		Candidate Signature:



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## Size-up of a Collapsed Trench

Reference Source: NFPA 1006, *Standard for Technical Rescuer Professional Qualifications*, 2013 edition, 8.1.1

Rescue Technician: Trench Level I

## Skill Sheet RT: TI - 1

The candidate shall be given the incident and background information and applicable reference material to conduct a size-up of a collapsed trench so that the size-up is conducted within the scope of the incident management system; the existing and potential conditions are evaluated within the trench and the rescue area; general hazards are identified; a witness or "competent person" is secured; the probability of victim existence, number, condition, and location is determined; potential for rapid, non-entry rescues or victim self-rescue is recognized; needed personnel, supply, and equipment resources are evaluated; and utility involvement and location are determined.

**Expected time to complete skill(s) is 25 minutes**

Criteria/Performance Steps	Test		Retest	
	P	F	P	F
<b>Safely performs the following steps:</b>				
1. Demonstrates the ability to measure the dimensions of trench				
2. Categorizes soil – Solid rock, Type-A, Type-B, or Type-C				
3. Identifies type and degree of collapse				
4. Evaluates environmental conditions with possible implications for secondary collapse notes changes in weather conditions or contents of trench				
5. Interviews witness identifying the who, what, and where about the incident				
6. Acquires resource acquisition agreements for needed resources from the resource owner				
7. Identifies the need to notify, and request response from public utility agencies				
8. Conducts a Risk-Benefit analysis to determine self-rescue, rescue, or recovery- <b>CRITICAL POINT</b>				
9. Implements the Incident Management System to maintain proper span of control				
10. Ensures proper Personal Protective Equipment use in accordance with Alabama Fire College regulation.				
<b>Candidate must successfully perform 7/10 steps including ALL CRITICAL POINTS</b>	<b>Score: _/10</b>		<b>Score: _/10</b>	

### Evaluator Notes

Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score	
		Pass___	Fail___
By my signature above, I verify that I am currently certified to the level I am testing (AL/PB/IFSAC)			
Re-Test Evaluator Print Name & Signature:		Overall Skill Sheet Re-Test Score	
		Pass___	Fail___
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Candidate Print Name & Signature:		Candidate: Print Name or Candidate #	

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# Implement a Trench Emergency Action Plan

Reference Source: NFPA 1006, *Standard for Technical Rescuer Professional Qualifications*, 2013 edition, 8.1.2

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Rescue Technician: Trench Level I

## Skill Sheet RT: TI - 2

The candidate shall be given size-up information and a trench incident in order to implement a trench emergency action plan so that initial size-up information is utilized; pre-incident briefing is given to rescuers; documentation is ongoing; the collapse zone is established; a risk-benefit analysis is conducted; rapid, non-entry rescues or victim self-rescues are performed; the rescue area and general area are made safe; strategy and tactics are confirmed and initiated for existing and potential conditions; rapid intervention team and operational tasks are assigned; other hazards are mitigated; rescue resources are staged; and a protective system is being utilized.

**Expected time to complete skill(s) is 25 minutes**

Criteria/Performance Steps	Test		Retest	
	P	F	P	F
<b>Safely performs the following steps:</b>				
1. Understands the mechanics and the extent of collapse				
2. Pre-incident briefing is conducted				
3. Performs risk-benefit analysis – time, amount of personnel, victim condition				
4. Executes rapid non-entry rescues if available				
5. Mitigates hazards in and around trench by isolation, removal or control				
6. Chooses overall strategy for the operation				
7. Chooses tactics that will result in a safe and successful outcome				
8. Establishes Incident Management System				
9. Resources are staged and available				
10. Chooses between an isolation system and or protective system to surround the victim				
<b>Candidate must successfully perform 7/10 steps including ALL CRITICAL POINTS</b>	Score: __/10		Score: __/10	

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# Implement Support Operations

Reference Source: NFPA 1006, *Standard for Technical Rescuer Professional Qualifications*, 2013 edition, 8.1.3

Rescue Technician: Trench Level I

## Skill Sheet RT: TI - 3

The candidate shall be given an assignment, equipment, and other resources in order to implement support operations at trench emergencies, so that a resource cache is managed, scene lighting is provided for the tasks to be undertaken, environmental concerns are managed, a cut station is established, supplemental power is provided for all equipment, atmospheric monitoring and ventilation are implemented, personnel rehab is facilitated, operations proceed without interruption, extrication methods are in place, and the support operations facilitate rescue operational objectives.

**Expected time to complete skill(s) is 25 minutes**

Criteria/Performance Steps	Test		Retest	
	P	F	P	F
<b>Safely performs the following steps:</b>				
1. Manages a resource cache – organizes and tracks equipment				
2. Provides scene lighting				
3. Manages environmental concerns – shelter and thermal control				
4. Establishes a cut station – shows proficiency in basic carpentry by using hand and power tools				
5. Provides supplemental power for all equipment				
6. Implements atmospheric monitoring and ventilation				
7. Facilitates personnel rehab				
8. Proceeds with operations without interruption				
9. Ensures extrication methods are in place				
10. Ensures support operations facilitate rescue operational objectives				
<b>Candidate must successfully perform 7/10 steps including ALL CRITICAL POINTS</b>	Score: __/10		Score: __/10	
<b>Evaluator Notes</b>				
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score		
		Pass__	Fail__	
By my signature above, I verify that I am currently certified to the level I am testing (AL/PB/IFSAC)				
Re-Test Evaluator Print Name & Signature:	Date	Overall Skill Sheet Re-Test Score		
		Pass__	Fail__	
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## Support a Non-Intersecting Straight Wall Trench

Reference Source: NFPA 1006, *Standard for Technical Rescuer Professional Qualifications*, 2013 edition, 8.1.4

Rescue Technician: Trench Level I

## Skill Sheet RT: TI - 4

The candidate will be given size-up information, an action plan, a trench tool kit, and an assignment. The candidate will support a non-intersecting straight wall trench of 2.4 m (8 ft) or less, as a member of a team, so that strategies to minimize the further movement of soil are implemented effectively; trench walls, lip, and spoil pile are monitored continuously; rescue entry team(s) remains in a safe zone; any slough-in and wall shears are mitigated; emergency procedures and warning systems are established and understood by participating personnel; incident-specific personal protective equipment is utilized; physical hazards are identified and managed; victim and rescuer protection is maximized; victim extrication methods are considered; and a rapid intervention team is staged.

**Expected time to complete skill(s) is 25 minutes**

Criteria/Performance Steps	Test		Retest	
	P	F	P	F
<b>Safely performs the following steps:</b>				
1. Interprets tabulated data information in constructing a protective system				
2. Chooses and installs shoring systems, in accordance with the tabulated data, in the trench so the soil remains static in a trench 8 ft deep – <b>CRITICAL POINT</b>				
3. Installs supplemental shoring – includes lateral, distal, and proximal sheeting as required - <b>CRITICAL POINT</b>				
4. Trench lip, walls, and spoil pile are continuously monitored				
5. All entry team members remain in safe zones				
6. Emergency procedures and warning systems are established and understood				
7. Follows protocols				
8. Uses all required personal protective equipment – safety glasses, hard hat, hearing protection, gloves				
9. Pre-planned and staged equipment for victim extrication – stokes or SKED, hand shovels,				
10. Rapid intervention team is staged				
<b>Candidate must successfully perform 7/10 steps including ALL CRITICAL POINTS</b>	Score: __/10		Score: __/10	

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		Pass____	Fail____
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# Release a Victim from Soil Entrapment – Non-Intersecting Trench

**Reference Source: NFPA 1006, *Standard for Technical Rescuer Professional Qualifications*, 2013 edition, 8.1.5**

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Rescue Technician: Trench Level I

## Skill Sheet RT: TI - 5

The candidate will be given personal protective equipment, a trench rescue tool kit, and specialized equipment. The candidate will release a victim from soil entrapment by components of a non-intersecting collapsed trench of 2.4 m (8 ft) or less in depth, so that hazards to rescue personnel and victims are minimized, considerations are given to crush syndrome and other injuries, techniques are used to enhance patient survivability, tasks are accomplished within projected time frames, and techniques do not compromise the integrity of the existing trench shoring system

**Expected time to complete skill(s) is 25 minutes**

Criteria/Performance Steps	Test		Retest	
	P	F	P	F
<b>Safely performs the following steps:</b>				
1. Personal protective equipment is selected and used – eye protection, hard hat, hearing protection, gloves				
<b>2. Operates rescue tools to release victim from entrapment - CRITICAL POINT</b>				
<b>3. Hazards to rescue personnel and victims are minimized - CRITICAL POINT</b>				
4. Considerations are given for a victim appearing with crush syndrome				
5. Risk benefit assessment is performed for selected methods of rescue and time restraints				
<b>Candidate must successfully perform 4/5 steps including ALL CRITICAL POINTS</b>	Score: __/5		Score: __/5	

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Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score	
		Pass___	Fail___
By my signature above, I verify that I am currently certified to the level I am testing (AL/PB/IFSAC)			
Re-Test Evaluator Print Name & Signature:		Overall Skill Sheet Re-Test Score	
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## Remove Victim from a Trench

Reference Source: NFA 1006, *Standard for Technical Rescuer Professional Qualifications*, 2013 edition, 8.1.6

Rescue Technician: Trench Level I

## Skill Sheet RT: TI - 6

The candidate will be given a disentangled victim, a basic first-aid kit, and victim packaging resources. The candidate will remove a victim from a trench, so that basic life functions are supported as required; the victim is evaluated for signs of crush syndrome; methods and packaging devices selected are compatible with intended routes of transfer; universal precautions are employed to protect personnel from blood-borne pathogens; and extraction times meet time constraints for medical management.

**Expected time to complete skill(s) is 25 minutes**

Criteria/Performance Steps	Test		Retest	
Safely performs the following steps:	P	F	P	F
1. Supports basic life functions, provides basic medical care				
2. Evaluates victim for signs of crush syndrome and identifies need for advanced life support				
3. Selects methods and packaging devices that are compatible with intended routes of transfer				
4. Employs universal precautions to protect personnel from blood-borne pathogens				
5. Ensures that extrication times meet time constraints for medical management				
<b>Candidate must successfully perform 4/5 steps including ALL CRITICAL POINTS</b>	Score: __/5		Score: __/5	
<b>Evaluator Notes</b>				
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score		
		Pass___	Fail___	
By my signature above, I verify that I am currently certified to the level I am testing (AL/PB/IFSAC)				
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# Disassemble Support Systems

Reference Source: NFPA 1006, *Standard for Technical Rescuer Professional Qualifications*, 2013 edition, 8.1.7

Rescue Technician: Trench Level I

## Skill Sheet RT: TI - 7

The candidate will be given personal protective equipment, a trench tool kit, and removal of victim(s). The candidate will disassemble support systems at a trench emergency incident, so that soil movement is minimized; all rescue equipment is removed from the trench; sheeting and shoring are removed in the reverse order of their placement; emergency protocols and safe zones in the trench are adhered to; rescue personnel are removed from the trench; the last supporting shores are pulled free with ropes; equipment is cleaned and serviced; reports are completed; and a post-briefing is performed.

**Expected time to complete skill(s) is 25 minutes**

Criteria/Performance Steps	Test		Retest	
Safely performs the following steps:	P	F	P	F
1. Minimizes soil movement				
2. Removes all rescue equipment from the trench				
3. Removes sheeting and shoring in reverse order of their placement				
4. Adheres to emergency protocols and safe zones in the trench				
5. Ensures that rescue personnel are removed from the trench				
6. Pulls the last supporting shores free with ropes				
7. Services and cleans equipment				
8. Completes reports				
9. Performs a post-briefing				
10. Uses personal protective equipment – eye protection, hard hat, hearing protection, gloves				
<b>Candidate must successfully perform 7/10 steps including ALL CRITICAL POINTS</b>	Score: __/10		Score: __/10	
<b>Evaluator Notes</b>				
Evaluator Print Name & Signature:		Date	Overall Skill Sheet Score	
			Pass___	Fail___
By my signature above, I verify that I am currently certified to the level I am testing (AL/PB/IFSAC)				
Re-Test Evaluator Print Name & Signature:		Overall Skill Sheet Re-Test Score		
		Pass___	Fail___	
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## Support Intersecting Trench

Reference Source: NFPA 1006, *Standard for Technical Rescuer Professional Qualifications*, 2013 edition, 8.2.1

Rescue Technician: Trench Level II

## Skill Sheet TR: TII - 8

The candidate will be given size-up information and an action plan, a trench tool kit, and an assignment. The candidate will support an intersecting trench as a member of a team, so that strategies to minimize the further movement of soil are implemented effectively; trench walls, lip, and spoil pile are monitored continuously; rescue entry team(s) in the trench remains in a safe zone; any slough-in and wall shears are mitigated; emergency procedures and warning systems are established and understood by participating personnel; incident specific personal protective equipment is utilized; physical hazards are identified and managed; victim protection is maximized; victim extrication methods are considered; and a rapid intervention team is staged.

**Expected time to complete skill(s) is 25 minutes**

Criteria/Performance Steps	Test		Retest	
	P	F	P	F
<b>Safely performs the following steps:</b>				
1. Interprets tabulated data information in constructing a protective system				
2. Identifies type of intersecting trench – L, T, Y				
<b>3. Chooses and installs shoring systems, in accordance with the tabulated data, in the trench so the soil remains static in a trench 8 ft deep –CRITICAL POINT</b>				
4. Installs supplemental shoring – includes lateral, distal, and proximal sheeting as required				
5. Trench lip, walls, and spoil pile are continuously monitored				
<b>6. Identifies hazards in trench - CRITICAL POINT</b>				
<b>7. All entry team members remain in safe zones - CRITICAL POINT</b>				
8. Emergency procedures and warning systems are established and understood				
9. Follows protocols				
10. Uses all required personal protective equipment – safety glasses, hard hat, hearing protection, gloves				
11. Pre-planned and staged equipment for victim extrication – stokes or SKED, hand shovels				
12. Rapid intervention team is staged				
<b>Candidate must successfully perform 9/12 steps including ALL CRITICAL POINTS</b>	Score: __/12		Score: __/12	

### Evaluator Notes

Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score	
		Pass___	Fail___
By my signature above, I verify that I am currently certified to the level I am testing (AL/PB/IFSAC)			
Re-Test Evaluator Print Name & Signature:		Overall Skill Sheet Re-Test Score	
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# Install Supplemental Sheeting and Shoring

Reference Source: NFA 1006, *Standard for Technical Rescuer Professional Qualifications*, 2013 edition, 8.2.2

Rescue Technician: Trench Level II

## Skill Sheet RT: TII - 9

The candidate will be given size-up information, an action plan, and a trench tool kit. The candidate will install supplemental sheeting and shoring for each 0.61 m (2 ft) of depth dug below an existing approved shoring system; so that the movement of soil is minimized effectively, initial trench support strategies are facilitated; rescue entry team safe zones are maintained; excavation of entrapping soil is continued; victim protection is maximized; victim extrication methods are considered, and a rapid intervention team is staged.

**Expected time to complete skill(s) is 25 minutes**

Criteria/Performance Steps	Test		Retest	
	P	F	P	F
<b>Safely performs the following steps:</b>				
1. Identifies type of collapse and method to stabilize				
2. Interprets tabulated data information in constructing a protective system				
3. Chooses and installs shoring systems, in accordance with the tabulated data, in the trench so the soil remains static in a trench - <b>CRITICAL POINT</b>				
4. Installs supplemental shoring – includes lateral, distal, and proximal sheeting as required - <b>CRITICAL POINT</b>				
5. Trench lip, walls, and spoil pile are continuously monitored				
6. Identifies hazards in trench relative to existing safe zones - <b>CRITICAL POINT</b>				
7. All entry team members remain in safe zones - <b>CRITICAL POINT</b>				
8. Emergency procedures and warning systems are established and understood				
9. Follows protocols				
10. Uses all required personal protective equipment – safety glasses, hard hat, hearing protection, gloves				
11. Pre-planned and staged equipment for victim extrication – stokes or SKED, hand shovels				
12. Rapid intervention team is staged				
<b>Candidate must successfully perform 9/12 steps including ALL CRITICAL POINTS</b>	Score: __/12		Score: __/12	

**Evaluator Notes**

Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score	
		Pass___	Fail___
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## Construct Load Stabilization System

Reference Source: NFPA 1006, *Standard for Technical Rescuer Professional Qualifications*, 2013 edition, 8.2.3

Rescue Technician: Trench Level II

## Skill Sheet RT: TII - 10

The candidate will be given an assignment, personal protective equipment, and a trench tool kit. The candidate will construct load stabilization systems, so that the stabilization system will support the load safely; the system is stable; and the assignment is completed.

**Expected time to complete skill(s) is 25 minutes**

Criteria/Performance Steps	Test		Retest	
Safely performs the following steps:	P	F	P	F
1. Uses all required personal protective equipment – safety glasses, hard hat, hearing protection, gloves				
2. Calculates weight of the load to be stabilized				
3. Selects and constructs stabilization system				
4. Evaluates structural integrity of the system so that the load is supported safely				
<b>Candidate must successfully perform 3/4 steps including ALL CRITICAL POINTS</b>	Score: __/4		Score: __/4	
<b>Evaluator Notes</b>				
Evaluator Print Name & Signature:		Date	Overall Skill Sheet Score	
			Pass___	Fail___
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Re-Test Evaluator Print Name & Signature:		Overall Skill Sheet Re-Test Score		
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## Lift a Load

Reference Source: *NFPA 1006, Standard for Technical Rescuer Professional Qualifications, 2013 edition, 8.2.4*

Rescue Technician: Trench Level II

## Skill Sheet RT: TII - 11

The candidate will be given a trench tool kit. The candidate will lift a load, so that the load is lifted the required distance to gain access; settling or dropping of the load is prevented; control and stabilization are maintained before, during, and after the lift; and operational objectives are attained.

**Expected time to complete skill(s) is 25 minutes**

Criteria/Performance Steps	Test		Retest	
	P	F	P	F
<b>Safely performs the following steps:</b>				
1. Estimates the weight of the load to be lifted				
2. Lifts the load the required distance to gain access				
2. Prevents settling or dropping of the load				
3. Maintains control and stabilization before, during, and after the lift				
4. Operates a lever				
5. Stabilizes the load after moving				
<b>Candidate must successfully perform 3/5 steps including ALL CRITICAL POINTS</b>	Score: __/5		Score: __/5	

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## Coordinate Use of Heavy Equipment

Reference Source: NFPA 1006, *Standard for Technical Rescuer Professional Qualifications*, 2013 edition, 8.2.5

Rescue Technician: Trench Level II

## Skill Sheet RT: TII - 12

The candidate will be given personal protective equipment, means of communication, heavy equipment, and an operator. The candidate will coordinate the use of heavy equipment, so that operator capabilities and limitations for the task are evaluated, common communications are maintained, equipment usage supports the operational objectives, and hazards are avoided.

**Expected time to complete skill(s) is 25 minutes**

Criteria/Performance Steps	Test		Retest	
	P	F	P	F
<b>Safely performs the following steps:</b>				
1. Evaluates operator capabilities and limitations for task				
2. Maintains common communications through the use of hand signals and radio equipment				
3. Ensures equipment usage; supports the operational objectives				
4. Recognizes and avoids hazards - <b>CRITICAL POINT</b>				
5. Monitors rescuer and victim safety				
6. Uses appropriate personal protective equipment – eye protection, hard hat, hearing protection, gloves				
<b>Candidate must successfully perform 5/6 steps including ALL CRITICAL POINTS</b>	<b>Score: __/6</b>		<b>Score: __/6</b>	

### Evaluator Notes

Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score	
		Pass___	Fail___
By my signature above, I verify that I am currently certified to the level I am testing (AL/PB/IFSAC)			
Re-Test Evaluator Print Name & Signature:		Overall Skill Sheet Re-Test Score	
		Pass___	Fail___
By my signature above, I verify that I am currently certified to the level I am testing (AL/PB/IFSAC)			
Candidate Print Name & Signature:	Candidate: Print Name or Candidate #		

**Note to Evaluator(s):** By your signature above, you verify that you are qualified to serve as an Alabama Fire College Evaluator, have followed AFC Skills Testing Policy, and have witnessed that the above candidate has tested the above skills in their entirety.

**Note to Student:** Skill will end when you state or indicate to the evaluator that you have completed all the identified steps. Notify the evaluator at **ANY** time that you have a safety concern.



AFC & PSC

## Release Victim from Entrapment by Collapsed Trench

Reference Source: NFPA 1006, *Standard for Technical Rescuer Professional Qualifications*, 2013 edition, 8.2.6

Rescue Technician: Trench Level II

## Skill Sheet RT: TII - 13

The candidate will be given personal protective equipment and a trench rescue tool kit. The candidate will release a victim from entrapment by components of a collapsed trench, so that hazards to rescue personnel and victims are minimized; considerations are given to crush syndrome and other injuries; techniques are used to enhance patient survivability; tasks are accomplished within projected time frames; and techniques do not compromise the integrity of the existing trench shoring system.

**Expected time to complete skill(s) is 25 minutes**

Criteria/Performance Steps	Test		Retest	
Safely performs the following steps:	P	F	P	F
1. Uses appropriate personal protective equipment – eye protection, hard hat, hearing protection, gloves				
2. Operates rescue tools and stabilization systems				
3. Evaluates victim for signs of crush syndrome and identifies need for advanced life support				
4. Selects methods and packaging devices that are compatible with intended routes of transfer				
5. Completes risk-benefit assessment for selected rescue method				
6. Ensures that extrication times meet time constraints for medical management				
<b>Candidate must successfully perform 5/6 steps including ALL CRITICAL POINTS</b>	Score: __/6		Score: __/6	
<b>Evaluator Notes</b>				
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score		
		Pass___	Fail___	
By my signature above, I verify that I am currently certified to the level I am testing (AL/PB/IFSAC)				
Re-Test Evaluator Print Name & Signature:		Overall Skill Sheet Re-Test Score		
		Pass___	Fail___	
By my signature above, I verify that I am currently certified to the level I am testing (AL/PB/IFSAC)				
Candidate Print Name & Signature:		Candidate: Print Name or Candidate #		
<b>Note to Evaluator(s):</b> By your signature above, you verify that you are qualified to serve as an Alabama Fire College Evaluator, have followed AFC Skills Testing Policy, and have witnessed that the above candidate has tested the above skills in their entirety.				
<b>Note to Student:</b> Skill will end when you state or indicate to the evaluator that you have completed all the identified steps. Notify the evaluator at <b>ANY</b> time that you have a safety concern.				