Stude	ent Information
	Name:
	Date of Birth:
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	Home Address:
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	City, State, Zip:
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	Home Phone Number:
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	Email Address:
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	nizational Information Department:
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	Department Address:
	City State 7in.
	City, State, Zip:
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	Contact Person (T.O. or Chief):
	Contact I cison (1.0. of cinci).
	Date Started:
	Date Completed:

Successful completion of 48 hours (3 classes) of Trench Rescue Technician 1st Class Completion Date: (Copy of Certificate must be attached) 2nd Class Completion Date: (Copy of Certificate must be attached) 3rd Class Completion Date: (Copy of Certificate must be attached)
Successful completion of Instructor I Date Completed: (Copy of Certificate must be attached)
Successful completion of Trench Rescue Technician T-t-T Task Book Date Completed:
Task Verification I verify that I have performed all tasks to the mastery level. I am able to complete the tasks without assistance and without error.
Student Signature:
Coordinator Verification
I verify that all tasks have been performed by the instructor to the mastery level. The instructor is able to complete the tasks without assistance and without error.
Coordinator Signature:

This task book has been developed by Oklahoma Fire Service Training for the use with the evaluation and qualification of trench rescue instructors. The task book is used with new instructors wishing to teach Trench Rescue Technician. The skills in the task book correspond to the essential duties and tasks outlined in NFPA 1006 Chapter 5 and Chapter 11 and the OFST Confined Space Rescue Technician program.

Evaluation and confirmation of the students performance is generally accomplished by the program coordinator or lead instructor. The evaluation occurs during classroom instruction, drill ground skills training, student evaluation, or class administrative duties.

It is imperative that all performance be critically evaluated and accurately recorded by the evaluator. All tasks must be performed at the mastery level to demonstrate competence with the task. Mastery requires the student to be able to perform the task with 100% accuracy without coaching or supervision. The task must be performed without hesitation. In other words, when the evaluator initials a task he/she is verifying that he/she directly observed the performance of the task and the student can perform the task without supervision during routine instructional duties.

The responsibilities associated with the task book for the student, lead instructor, and rescue coordinator are summarized below.

The student is responsible for:

- ✓ Contact OFST to notify the Coordinator that you will be attending the class
- ✓ Reviewing and understanding the instructions in the task book,
- ✓ Seeking assistance from the program coordinator, or lead instructor when necessary,
- ✓ Dedicating adequate practice time necessary to master all tasks,
- ✓ And assuring the tasks are completed by the due date.

The program coordinator/lead instructor is responsible for:

- ✓ Ensuring the student understands all the requirements of the Train-the-Trainer,
- ✓ Objectively evaluating the student on each task to determine if mastery of the task has been achieved.
- ✓ Scheduling time to evaluate the performance of the student,
- ✓ Identifying any areas of deficient performance and coaching the student in those areas,
- ✓ Discussing any identified problem areas with the program coordinator and developing a solution,
- ✓ Initialing each task as it is successfully completed by the student,
- ✓ And signing the verification statement when all tasks have been successfully demonstrated by the student.

The program coordinator is responsible for:

- ✓ Reviewing the task book with the student,
- ✓ Cooperating with the lead instructor to ensure all tasks have been properly evaluated.
- ✓ Identifying any additional training needed by the student,
- ✓ Signing the verification statement when all tasks have been successfully demonstrated by the student,

Who can Sign off for credit of completion for each skill?

✓ Person must be a certified Oklahoma Fire Service Training Instructor. see attached Current Instructor List

Administrative			
Task	Date Completed	Evaluator's Initials	
Completes and submits a Course Authorization form for	•		
training course			
 All information provided 			
 Signature provided 			
Submits form 10s for training class			
 One form for each department 			
 Original receipts attached 			
Form is signed			
 All information provided 			
Prepares for delivery of class			
 All equipment and materials are identified and 			
obtained			
 Lesson plan reviewed 			
 Safety issues identified and addressed 			
Instruction			
Sets up learning environment for class			
Seating identified			
 Audiovisual equipment placed 			
 Safety issues addressed 			
Delivers lesson to class			
 Instructional methods are appropriate for audience 			
and content			
 Lesson plan followed 			
 Conclusion provided 			
Answers student questions			
 Question is clarified 			
Student affirmed			
 Answer provided 			
Facilitates practical skills			
 Purpose of skill explained 			
Skill demonstrated			
 Feedback provided during practice 			
Evaluates student learning with written tests			
 Instructions explained 			
 Directions followed 			
Security maintained			
Surveys drill ground for hazards			
 Hazards identified 			
 Hazards corrected 			
 Students briefed on safety issues 			

Safety officer identified if appropriate		
Demonstrates confidence and competence with subject		
matter		
Technical Knowleds	ge	
Knowledge of NFPA 1006 (2003 ed.) Rescue Technician		
Professional Qualifications		
Knowledge of NFPA 1670 (2004 ed.) Operations and		
Training on Technical Search and Rescue Incidents		
Knowledge of NFPA 1983 (2006 ed.) Life Safety Rope and		
Equipment for Emergency Services		
Knowledge of OSHA 29 CFR 1926 Subpart P Excavations		
Define the term technical rescue as it applies to the big three		
Discuss the rescue training cycle as it pertains to specialized		
operations		
Identify the four service levels associated with all technical		
rescue operations		
Describe the theory of risk/benefit as it applies to trench		
rescue		
Determine the difference between a rescue and a recovery		
Understand the F.A.I.L.U.R.E. acronym as it applies to		
specialized rescue operations		
Discuss the advantages and disadvantages of being self		
sufficient, community dependent, or regional trench rescue		
team		
Determine the most advantageous physical and mental		
characteristics of potential trench team members		
Explain the T.E.A.M. acronym as it applies to trench rescue		
Describe the weight, size, and characteristics of the		
equipment used in trench rescue		
Understand the need for choosing the most appropriate		
method to move and store trench rescue equipment		
Explain the advantages and disadvantages of each type of		
trench apparatus		
Describe the conditions that require compliance with the		
Excavation Standard, and the emergency service		
organization's relationship with ASHA pertaining to trench		
collapse operations.		
Describe the history of the OSHA Standard on Excavations		
and explain how the current standard is performance based		
Provide an understanding of OSHA's Standard on		
Excavations, its enforcement role, and subsequent		
relationship with emergency service organizations		
Explain the reasons for non-compliance with the trench		
standard based on cost and installation of traditional		

chapting and charing		<u> </u>
sheeting and shoring		
Discuss trench injury and fatality statistics as they compare to other areas of construction		
Recall from memory trench terminology as identified in the		
excavation standard		
Explain how cost and demographics play a role in non-		
compliance		
Describe a way in which machines and rigging can fail and		
create emergencies at a trench site		
Discuss the potential problems that can occur from below		
grade atmospheric hazards		
Explain the various components of an Incident Management		
System for trench emergencies		
Describe the various IMS support functions and their		
importance to successful trench operations		
Explain how gravity plays a key role in trench failure		
Describe the term "unconfined Compressive Strength" as it		
applies to trenches and excavations		
Define the terms active and passive soils		
Summarize the effects of water as they apply to soil strength		
Describe how the weight of most soils can be determined		
mathematically		
Explain how the cubic weight of soil leads to trench failure		
Summarize the most dangerous portion of a un-shored		
trench, and how a properly shored trench transfers potential		
energy		
Explain the effects of water as a factor that can lead to a		
trench collapse		
Describe the consequences that varying soil profiles and		
previously disturbed soils can have on open trenches		
List some of the causes of potential vibration that can lead		
to a trench collapse		
Discuss the spoil pile and its relationship to collapse		
potential		
Describe the difference between a spoil pile slide, slough		
failure, shear wall collapse, toe failure, wedge failure, and		
rotational failure		
Describe the four classifications of soil		
Explain the parameters that lead to individual classifications		
Describe the various methods used to perform visual and		
manual testing		
Explain the proper use of penetrometer, shearvane, and		
torvane soil testing instruments		
Discuss the advantages and disadvantages of firefighting		
"turnout" gear, jumpsuits, and regular long sleeve pants and		
shirts for trench rescue		
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Explain the pros and cons of various types of hand	
protection	
Describe the preferred helmet for trench rescue operations	
Determine the correct type and use of eye protection	
Recite the preferred level of foot and ankle protection for	
the trench environment	
Describe the specialty equipment that may be required	
during a trench rescue	
Summarize the benefits of developing a team culture that	
maintains safety as a top priority	
Explain the use of ground pads fro trench rescue	
Describe how sheeting is used in trench rescue	
Describe how sheeting is used in trench protective systems.	
Identify the various types of shores used in trench rescue	
and how each works	
Describe the various types of tools used in trench rescue	
operations	
Explain the use of various trench rescue tools utilized in	
collapse	
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Describe the use and application of high-pressure air bags	
for trench operations	
Describe the use and application of low-pressure air bags for	
trench operations	
List the advantages and disadvantages of high and low-	
pressure air bags	
Specify a method for determining high and low-pressure air	
bag lifting capacities	
Explain the construction features of high and low-pressure	
air bags	
Describe the proper procedure for using cribbing to provide	
stabilization during lifting operations	
Identify those factors that would be pertinent in formulating	
a trench emergency pal before arriving on the scene	
Describe the appropriate questions to ask about the event	
after arrival at the scene	
Explain factors to be considered during the incident	
Summarize the steps to consider when looking for buried	
victims	
Describe the various types of hazards that can be found at a	
trench rescue	
Identify the five hazard control categories	
Explain the phases of hazard control at a trench emergency	
Describe the two types of situations presented to a rescuer at	
a trench collapse	
Explain the methods that can be used to uncover trapped or	
2p. and motifous that can be ased to allege of trapped of	l .

buried victims	
Specify the rules to follow when digging for a trapped or	
covered victim	
Explain the proper use of sheeting for trench rescue	
operations	
Describe the proper use of shores for trench protective	
systems	
Describe the techniques for using isolation tunneling for	
victims trapped in running debris	
Explain the use of shaft tunnels to reach buried victims from	
remote locations	
Specify the procedures for building a Class C protective	
system	
Describe the various methods contractors use to stabilize	
trenches and excavations	
Explain the different components and materials used by	
contractors to shore a trench	
Explain the consideration for trench victim packaging	
Describe the techniques for victim removal	
Specify the techniques for victim removal	
Specify the various victim packaging equipment utilized n	
trench rescue operations	
Explain why the termination process can be the most	
dangerous phase of the operation	
Specify the order in which the trench is dismantled	
Describe the importance of proper clean-up procedures after	
a trench rescue operation	
Summarize the conditions that may lead to critical incident	
stress debriefing for your personnel	
List the considerations that apply to trench rescues	
Explain the procedures used for constructing a protective	
system in Straight Wall, Single Wall Slough, "T", "L", and	
Deep Wall trenches	
Describe various scenarios in which a rescuer could be	
confronted with an atmospheric problem at a trench rescue	
Recite the definition of a permit required confined space	
Understand the definitions that apply to atmospheric	
monitoring	
Specify the various action guidelines as they apply to	
oxygen, flammability, and toxicity	
Summarize the nine rules of atmospheric monitoring at a	
trench rescue	
Describe the use of ventilation as a hazard control option	

Upon Successful completion of Confined Space Rescue Technician Train-the-Trainer Task Book, Contact:

Jason Louthan Rescue Coordinator Oklahoma Fire Service Training @ Oklahoma State University 1723 W. Tyler Stillwater, OK 74078 1.800.304.5727

Fax: 405.744.7377 louthaj@osufst.org