

# AIR FORCE QUALIFICATION TRAINING PACKAGE (AFQTP)



FOR  
LIQUID FUEL SYSTEMS MAINTENANCE  
(3E4X2)

MODULE 17  
TANK / CONFINED SPACE ENTRY

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Career Field Education and Training Plan (CFETP) references from 1 Jul 02 version.

OPR: HQ AFCESA/CEOF  
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Supersedes AFQTP 3E4X2-17, 1 Oct 1999

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Pages: 24/Distribution F

**Notice.** This AFQTP is *NOT* intended to replace the applicable technical references nor is it intended to replace hands-on training. It is to be used in conjunction with these for training purposes only.

# AIR FORCE QUALIFICATION TRAINING PACKAGES FOR LIQUID FUEL SYSTEMS MAINTENANCE (3E4X2)

## INTRODUCTION

Before starting this AFQTP, refer to and read the “[AFQTP TRAINER/TRAINEE GUIDE](#).”

**AFQTPs are mandatory and must be completed** to fulfill task knowledge requirements on core and diamond tasks for upgrade training. ***It is important for the trainer and trainee to understand*** that an AFQTP ***does not*** replace hands-on training, nor will completion of an AFQTP meet the requirement for core task certification. AFQTPs will be used in conjunction with applicable technical references and hands-on training.

***AFQTPs and Certification and Testing (CerTest) must be used as minimum upgrade requirements for Diamond tasks.***

### MANDATORY minimum upgrade requirements:

**Core task:**

AFQTP completion  
Hands-on certification

**Diamond task:**

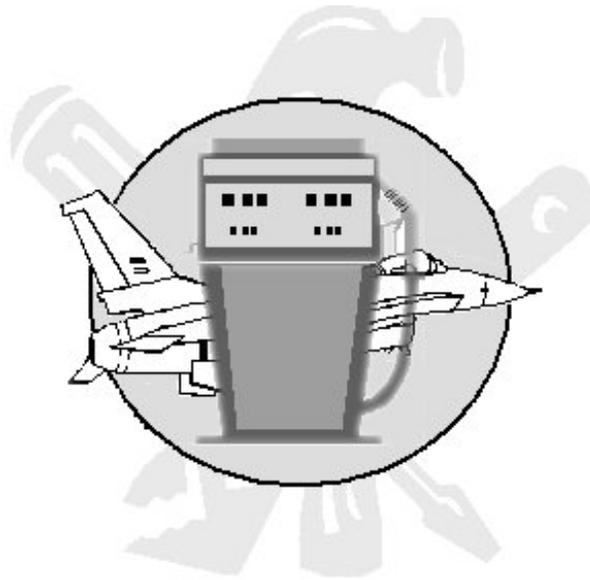
AFQTP completion  
CerTest completion (80% minimum to pass)

**Note:** *Trainees will receive hands-on certification training for Diamond Tasks when equipment becomes available either at home station or at a TDY location.*

***Put this package to use.*** Subject matter experts under the direction and guidance of HQ AFCESA/CEOF revised this AFQTP. If you have any recommendations for improving this document, please contact the Career Field Manager at the address below.

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**TANK/CONFINED SPACE ENTRY**  
**SPECIALIZED PROTECTIVE EQUIPMENT**

**MODULE 17**

**AFQTP UNIT 4**

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**INSPECT (17.4.1.)**

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**NOTE:**

This AFQTP **DOES NOT** cover the inspection of Personal Protective Equipment (PPE) such as: boots, gloves, and coveralls. Please refer to AFMAN 32-1275, Maintenance of Petroleum Systems, for further guidance on inspection of PPE.

**INSPECT SPECIALIZED PROTECTIVE EQUIPMENT**  
***Task Training Guide***

<b>STS Reference Number/Title:</b>	17.4.1., Inspect specialized protective equipment.
<b>Training References:</b>	<ol style="list-style-type: none"> <li>1. Career Development Course (CDC) 3E452 Liquid Fuel System Maintenance, Volume 3, Unit 3: <i>Confined Space Entry Program</i>.</li> <li>2. <a href="#">Air Force Manual (AFMAN) 32-1275, Maintenance of Petroleum Systems.</a></li> <li>3. <a href="#">Air Force Occupational Safety and Health Standards (AFOSHSTD) 48-137, Respiratory Protection Program.</a></li> <li>4. <a href="#">AFOSHSTD 91-25, Confined Spaces.</a></li> <li>5. <a href="#">AFOSHSTD 48-8, Controlling Exposure to Hazardous Materials.</a></li> <li>6. <a href="#">AFOSHSTD 91-31, Personal Protective Equipment.</a></li> <li>7. <a href="#">Technical Order (T.O.) 00-25-245, Testing and Inspection Procedures for Personnel Safety and Rescue Equipment.</a></li> </ol>
<b>Prerequisites:</b>	<ol style="list-style-type: none"> <li>1. <b>Possess as a minimum a 3E432 AFSC.</b></li> <li>2. <b>Review the following references:</b> <ol style="list-style-type: none"> <li>2.1. CDC 3E452, Volume 3, Unit 3.</li> <li>2.2. AFMAN 32-1275.</li> <li>2.3. AFOSHSTDs 48-137, 91-25,48-8, and 91-31.</li> </ol> </li> </ol>
<b>Equipment/Tools Required:</b>	<ol style="list-style-type: none"> <li>1. Specialized protective equipment: <ol style="list-style-type: none"> <li>1.1. Respirators.</li> <li>1.2. Hoses and airlines.</li> <li>1.3. Air bottles.</li> <li>1.4. Body and wrist harnesses.</li> <li>1.5. Lifelines.</li> </ol> </li> </ol>
<b>Learning Objective:</b>	Trainee should know how to inspect specialized protective equipment.
<b>Samples of Behavior:</b>	<ol style="list-style-type: none"> <li>1. Trainee will be able to inspect breathing equipment rescue equipment.</li> </ol>
<b>Notes:</b>	

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## INSPECT SPECIALIZED PROTECTIVE EQUIPMENT

**1. Background:** Tank cleaning is one of the most hazardous jobs we do. To keep safe, there are many types of equipment used to minimize the hazard. These include air movers, combustible gas indicators, grounding cables, and specialized protective equipment. Before you use any of the specialized protective equipment, you must thoroughly inspect it. One thing you must keep in mind is the seriousness of this inspection. During a tank cleaning operation, you literally trust your life to this equipment, so do a good job inspecting it!

### **2. To perform this task, follow these steps:**

#### **Step 1: Inspection of the breathing equipment:**

- 1.1. Inspect respirators for any holes, tears, or breaks; stretched or torn straps; damaged buckles; aged rubber; cracked lenses; damaged diaphragms; and loose clamps.
- 1.2. Tighten any loose parts, and replace any damaged parts. Discard the respirator if it cannot be repaired.
- 1.3. Inspect hoses and airlines for any signs of cracking, bulging, stiffness or dry rot.
- 1.4. Test the hose manually by flexing it.
- 1.5. Inspect the connectors for damaged or missing parts.
- 1.6. Inspection of the respirators must be documented on an AF Form 1071.
- 1.7. Type "C" (Air-line) respirators, the type we use for tank cleaning, require an inspection before use or annually.
- 1.8. Inspect the breathing air bottles for damage, corrosion, or leaks. Check the currency of the hydrostatic test date.

#### **Step 2: Inspection of the rescue equipment:**

- 2.1. Inspect body harnesses and wrist harnesses before use or periodically, not to exceed 1 year.
- 2.2. Ensure the maximum useable time does not exceed 10 years from the date on the metal tag. If the date exceeds 10 years, or there is no tag, destroy the harness.
- 2.3. Check harness and wrist harnesses for:
  - 2.3.1. Deep cuts.
  - 2.3.2. Scratches and cracks.
  - 2.3.3. Damaged grain.
  - 2.3.4. Open holes or tears.
  - 2.3.5. Burnt leather.
  - 2.3.6. Loose or missing rivets or stitching.
  - 2.3.7. Broken, cracked, or deformed D rings, snap hooks, plates and buckles.
  - 2.3.8. Bent, broken, or missing snap hook keeper latch.
  - 2.3.9. Any one of these defects is cause for rejection of the harness. To prevent reuse, destroy unserviceable harnesses by cutting the webbing or straps.
  - 2.3.10. Lifelines have a 5-year service life from the date of first use.

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**2.3.11.** Lifelines must be inspected and identified or marked before being used and checked for the following defects, any of which is basis for rejection:

**2.3.11.1.** Any cuts, chafes, or nicks.

**2.3.11.2.** Bulged strands.

**2.3.11.3.** Knots in individual strands.

**2.3.11.4.** Improperly attached fittings.

**2.3.11.5.** Abnormal weakness detected visually, discoloration or rotting.

**2.3.11.6.** To prevent reuse, destroy unserviceable lifeline by cutting into small pieces.

**2.3.12.** Fall-arresting systems are used specifically for underground storage tanks or confined spaces deeper than five feet, and must be inspected before use and annually.

**2.3.13.** Inspected fall-arresting systems for evidence of defective or damaged hardware elements including:

**2.3.13.1.** Distorted hooks or faulty hook springs.

**2.3.13.2.** Loose or damaged mountings.

**2.3.13.3.** Non-functioning parts.

**2.3.13.4.** Cracks.

**2.3.13.5.** Sharp edges.

**2.3.13.6.** Corrosion.

**2.3.13.7.** Excessive heating or wear

**2.3.13.8.** Any alteration or deterioration.

**2.3.14.** Evidence of damaged straps or ropes, including fraying, splicing, knotting, and broken or pulled stitches will result in fall-arresting equipment being tagged as “unserviceable” and removed it service until repairs are made.

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**REVIEW QUESTIONS  
FOR  
INSPECT SPECIALIZED PROTECTIVE EQUIPMENT**

QUESTION	ANSWER
1. A damaged respirator part can be repaired.	a. True. b. False.
2. The monthly inspection for type "C" respirators is documented on _____.	a. AF Form 988. b. AF Form 332. c. AF Form 1071. d. AF Form 172.
3. Breathing air bottles must be inspected for _____.	a. corrosion and damage. b. damage and current hydrostatic test date. c. corrosion and current hydrostatic test date. d. corrosion, damage, and current hydrostatic test date.
4. _____ has (have) a five year service life from the date of first use.	a. Wrist harnesses. b. Breathing air bottles. c. Lifelines. d. Acid resistant gauntlet gloves.
5. If a harness has _____ defect(s) or is older than 10 years, it must be destroyed.	a. 1 b. 2 c. 3 d. 4
6. Fall-arresting systems must be inspected?	a. After use. b. Semi-annually. c. Quarterly. d. Before use and annually.

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## INSPECT SPECIALIZED PROTECTIVE EQUIPMENT

### PERFORMANCE CHECKLIST

#### INSTRUCTIONS:

The trainee must satisfactorily perform all parts of the task without assistance. Evaluate the trainee's performance using this checklist.

DID THE TRAINEE....?	YES	NO
1. Properly inspect the following breathing equipment: 1.1. Respirators 1.2. Air hoses and airlines 1.3. Breathing air bottles 1.4. Did trainee document respirator inspection		
2. Properly inspect the following rescue equipment: 2.1. Body and wrist harnesses 2.2. Lifelines 2.3. Fall-arresting system		

**FEEDBACK:** Trainer should provide both positive and/or negative feedback to the trainee immediately after the task is performed. This will ensure the issue is still fresh in the mind of both the trainee and trainer.

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**TANK/CONFINED SPACE ENTRY**  
**SPECIALIZED PROTECTIVE EQUIPMENT**

**MODULE 17**

**AFQTP UNIT 4**

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**USE (17.4.2.)**

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**NOTE:**

This AFQTP **DOES NOT** cover the use of Personal Protective Equipment (PPE) such as: boots, gloves, and coveralls. Please refer to AFMAN 32-1275, Maintenance of Petroleum Systems, for further guidance on inspection of PPE.

**USE SPECIALIZED PROTECTIVE EQUIPMENT**  
***Task Training Guide***

<b>STS Reference Number/Title:</b>	17.4.2., Use specialized protective equipment.
<b>Training References:</b>	<ol style="list-style-type: none"> <li>1. Career Development Course (CDC) 3E452 Liquid Fuel System Maintenance, Volume 3, Unit 3: <i>Confined Space Entry Program</i>.</li> <li>2. <a href="#">Air Force Manual (AFMAN) 32-1275, Maintenance of Petroleum Systems.</a></li> <li>3. <a href="#">Air Force Occupational Safety and Health Standards (AFOSHSTD) 48-137, Respiratory Protection Program.</a></li> <li>4. <a href="#">AFOSHSTD 91-25, Confined Spaces.</a></li> <li>5. <a href="#">AFOSHSTD 48-8, Controlling Exposure to Hazardous Materials.</a></li> <li>6. <a href="#">AFOSHSTD 91-31, Personal Protective Equipment.</a></li> <li>7. <a href="#">Technical Order (TO) 00-25-245, Testing and Inspection Procedures for Personnel Safety and Rescue Equipment.</a></li> </ol>
<b>Prerequisites:</b>	<ol style="list-style-type: none"> <li>1. <b>Possess as a minimum a 3E432 AFSC.</b></li> <li>2. <b>Review the following references:</b> <ol style="list-style-type: none"> <li>2.1. CDC 3E452, Volume 3, Unit 3.</li> <li>2.2. AFMAN 32-1275.</li> <li>2.3. AFOSHSTDs 48-137, 91-25,48-8, and 91-31.</li> </ol> </li> </ol>
<b>Equipment/Tools Required:</b>	<ol style="list-style-type: none"> <li>1. Specialized protective equipment:             <ol style="list-style-type: none"> <li>1.1. Respirators.</li> <li>1.2. Hoses and airlines.</li> <li>1.3. Air bottles.</li> <li>1.4. Body and wrist harnesses.</li> <li>1.5. Lifelines.</li> </ol> </li> </ol>
<b>Learning Objective:</b>	Trainee should know how to use specialized protective equipment.
<b>Samples of Behavior:</b>	Trainee will be able to use breathing equipment and rescue equipment.
<b>Notes:</b>	
The trainee should have a general understanding who administers the respiratory protection program, limitations of respirators, and the fit testing and training requirements.	

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## USE SPECIALIZED PROTECTIVE EQUIPMENT

**1. Background:** If inspection reveals no defects, then the specialized protective equipment is ready for use. This specialized protective equipment must be used properly and in accordance with the appropriate guidance.

**1.1.** The Bioenvironmental Engineering Flight (BE) at the base level runs the Respiratory Protection Program. Among other things, BE is responsible for the respirator selection criteria, training and fit-testing procedures. Before you can use any respirator, the BE must approve it and train you in its use.

**1.2.** The only types of respirators that can be used for tank cleaning are Type “C”, and they must be approved by the National Institute for Occupational Safety and Health (NIOSH) or Mine Safety and Health Administration (MSHA). Like any piece of equipment, respirators have their limits. Facial hair and extreme temperatures can adversely effect the performance of respirators.

**NOTE:**

Individuals with facial hair that interferes with the face piece- to - face seal cannot be respirator certified.

**1.3.** The BE will conduct a fit-test initially and then every 12 months thereafter. The fit-test is valid for this period unless the worker experiences difficulty with positive or negative pressure tests; changes weight by more than 20 pounds; or receives extensive dental work, facial cosmetic surgery, scarring, or disfigurement. The BE will provide initial training to respirator wearers. This training shall be documented on the AF Forms 55 and 2767. This training will include instruction in the nature of the hazard and an appraisal of what may happen if the respirator is not used. Also included in this training is explanation of how to maintain, clean, and store the respirator; instructions on how to inspect, put on, check the fit, and properly wear the respirator.

**1.4.** Self-rescue is the best method of rescue for obvious reasons! Any entrant must be aware of their situation and evacuate if necessary. The entrant must also leave the area any time they are told to do so. The manhole observer / attendant may know something you don't, so if he/she tells you to get out, get out! The entry supervisor will ensure that all rescue equipment is properly located and set up and entrants are wearing their harnesses. If the safety person needs to enter the tank to perform a rescue, they will first assess the victim's condition. If the victim's air hose is tangled, the safety person will open the victim's escape bottle and then disconnect the air supply line. The rescuer will then pull the victim to the hoist (if underground tank) and attach the hoist to the victim's harness. At this time, the manhole observer / attendant will operate the hoist (if underground tank). If the tank is an aboveground tank with manholes at ground level, the safety person will attach a lifeline to the victim's harness and the personnel outside the tank will pull the victim out, sliding them across the floor. The safety person will help guide the victim so they will not become tangled up or sustain further injuries.

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**2. To perform this task, follow these steps:**

**Step 1: Check bottle(s) to ensure:**

- 1.1. They are secure.
- 1.2. They have air in them.
- 1.3. All connections are tight.
- 1.4. Regulator(s) has been installed correctly.
- 1.5. Valves are working properly.

**Step 2: Check air-hoses before making air connections to ensure:**

- 2.1. Disconnects are free from obstructions.
- 2.2. Airline connections are secure.
- 2.3. Airlines are not tangled or knotted.
- 2.4. Area that hoses will travel over is free of sharp objects.
- 2.5. Airline is clear by establishing airflow.

**Step 3: Check respirator:**

- 3.1. Before wearing respirator, connect to airline and ensure you are getting good airflow.
- 3.2. Ensure the emergency bottle is full.
- 3.3. Make sure that you have a good seal with your mask before entering the tank.

**Step 4: Check lifelines and harness to ensure:**

- 4.1. Harness is tight and secure.
- 4.2. Lifeline connections are compatible with the harness.

**Step 5: Check fall-arresting system to ensure:**

- 5.1. System is secured to the retrieval hoist.
- 5.2. Harness is connected to the fall-arresting system prior to entering underground storage tank.

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**REVIEW QUESTIONS  
FOR  
USE SPECIALIZED PROTECTIVE EQUIPMENT**

<b>Question</b>	<b>Answer</b>
1. The LFM NCOIC is responsible for the respiratory protection program.	a. True. b. False.
2. The only types of respirators that can be used for tank cleaning are _____.	a. approved by NIOSH or MSHA. b. Type "C". c. explosion proof. d. Both a and b.
3. Who conducts initial respirator fit testing?	a. Bioenvironmental Engineering Service. b. Entry supervisor. c. LFM NCOIC. d. Fire department.
4. What is the best method of rescue?	a. Calling the fire department. b. Self-rescue. c. Manually operated hoist. d. Lifeline.
5. Fall-arresting systems are connected to the harness prior to entering underground storage tanks.	a. True. b. False.

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## USE SPECIALIZED PROTECTIVE EQUIPMENT

### PERFORMANCE CHECKLIST

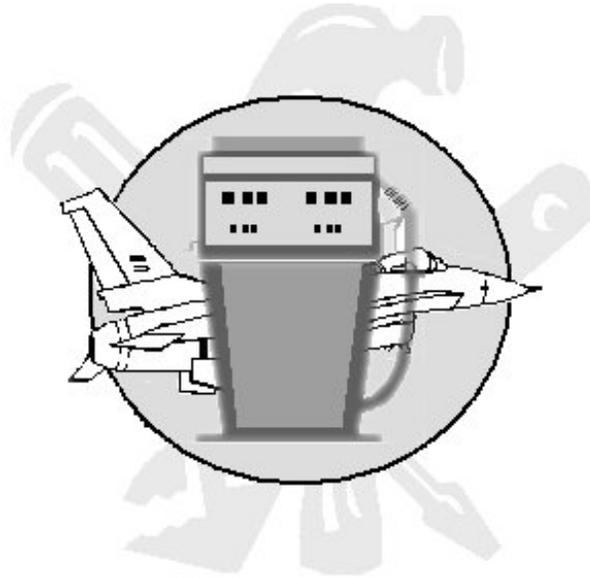
#### INSTRUCTIONS:

The trainee must satisfactorily perform all parts of the task without assistance. Evaluate the trainee's performance using this checklist.

DID THE TRAINEE....?	YES	NO
1. Check the air bottle system		
2. Check airlines		
3. Check respirator		
4. Check harness and lifeline		
5. Secure fall-arresting system to the retrieval hoist		

**FEEDBACK:** Trainer should provide both positive and/or negative feedback to the trainee immediately after the task is performed. This will ensure the issue is still fresh in the mind of both the trainee and trainer.

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**TANK/CONFINED SPACE ENTRY**  
**SPECIALIZED PROTECTIVE EQUIPMENT**

**MODULE 17**

**AFQTP UNIT 4**

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**MAINTAIN (17.4.3.)**

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**NOTE:**

This AFQTP **DOES NOT** cover how to maintain Personal Protective Equipment (PPE) such as: boots, gloves, and coveralls. Please refer to AFMAN 32-1275, Maintenance of Petroleum Systems, for further guidance on inspection of PPE.

**MAINTAIN SPECIALIZED PROTECTIVE EQUIPMENT**  
***Task Training Guide***

<b>STS Reference Number/Title:</b>	17.4.3., Maintain specialized protective equipment.
<b>Training References:</b>	<ol style="list-style-type: none"> <li>1. Career Development Course (CDC) 3E452 Liquid Fuel System Maintenance, Volume 3, Unit 3: <i>Confined Space Entry Program</i>.</li> <li>2. <a href="#">Air Force Manual (AFMAN) 32-1275, Maintenance of Petroleum Systems.</a></li> <li>3. <a href="#">Air Force Occupational Safety and Health Standards (AFOSHSTD) 48-137, Respiratory Protection Program.</a></li> <li>4. <a href="#">AFOSHSTD 91-25, Confined Spaces.</a></li> <li>5. <a href="#">AFOSHSTD 48-8, Controlling Exposure to Hazardous Materials.</a></li> <li>6. <a href="#">AFOSHSTD 91-31, Personal Protective Equipment.</a></li> <li>7. <a href="#">Technical Order (TO) 00-25-245, Testing and Inspection Procedures for Personnel Safety and Rescue Equipment.</a></li> </ol>
<b>Prerequisites:</b>	<ol style="list-style-type: none"> <li>1. <b>Possess as a minimum a 3E432 AFSC.</b></li> <li>2. <b>Review the following references:</b> <ol style="list-style-type: none"> <li>2.1. CDC 3E452, Volume 3, Unit 3.</li> <li>2.2. AFMAN 32-1275.</li> <li>2.3. AFOSHSTDs 48-137, 91-25, 48-8, and 91-31.</li> </ol> </li> </ol>
<b>Equipment/Tools Required:</b>	<ol style="list-style-type: none"> <li>1. Specialized protective equipment:             <ol style="list-style-type: none"> <li>1.1. Respirators.</li> <li>1.2. Hoses and airlines.</li> <li>1.3. Air bottles.</li> <li>1.4. Body and wrist harnesses.</li> <li>1.5. Lifelines.</li> </ol> </li> </ol>
<b>Learning Objective:</b>	Trainee should know how to maintain specialized protective equipment.
<b>Samples of Behavior:</b>	Trainee will be able to maintain breathing equipment and rescue equipment.
<b>Notes:</b>	
<ol style="list-style-type: none"> <li>1. Trainer needs to demonstrate how to clean a respirator, other breathing equipment, and to store fall-arresting system correctly.</li> <li>2. Also, trainer needs to show trainee where the date stamp for hydrostatic testing is located on air bottles and testing requirements.</li> </ol>	

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## MAINTAIN SPECIALIZED PROTECTIVE EQUIPMENT

**1. Background:** To continue to offer the proper protection, your personal protective equipment must be maintained. This includes cleaning the respirator and associated breathing equipment and maintaining the rescue equipment.

### **2. To perform this task, follow these steps:**

#### **Step 1: Cleaning the respirator.**

- 1.1. To clean the respirator, you must partially disassemble it.
  - 1.1.1. Remove the head straps, and if the type you are using has a removable nose cup, remove it.
  - 1.1.2. Further disassembly is not authorized.
- 1.2. Then place the respirator in a solution of commercially available cleaner / disinfectant.
- 1.3. Use a soft brush to remove any dirt and grime.
- 1.4. Rinse in warm clean water. Be sure that all the cleaner disinfectant solution is rinsed off.
- 1.5. Air-dry the respirators in a clean area. When everything is dry, carefully inspect all the parts as you are reassembling the respirator.
- 1.6. Place the respirator in a sealed plastic bag for storage when you are done.
- 1.7. Update the AF Form 1071 after cleaning and inspecting the respirator.

#### **Step 2: Cleaning the other breathing equipment such as: hoses, breathing air bottles, and regulators.**

- 2.1. Special care must be taken with the hoses.
  - 2.1.1. When you are done using the hoses, roll each hose up separately, and connect its ends together.
  - 2.1.2. This will prevent any dirt or moisture from getting into the hose.
  - 2.1.3. Then simply wash the hoses with soapy water and a soft brush.
- 2.2. After you make sure the valves are closed on the breathing air bottles, wash them with soapy water and a brush.
- 2.3. You should be careful with the regulators; you don't want any water to get inside them. It is best to wipe them off with a damp rag.

#### **Step 3: Check the hydrostatic test date on the bottles.**

- 3.1. The breathing air bottles will have a date stamped on them from the hydrostatic test.
  - 3.1.1. Ensure that it is no more than 5 years since the last hydrostatic test.
- 3.2. If it is more than 5 years, the bottle must be removed from service until it can be tested again and re-certified.

#### **Step 4: Check harness and lifelines.**

- 4.1. Ensure harnesses and lifelines are cleaned and stored properly in accordance with manufacturer requirements.

#### **Step 5: Cleaning and storing the fall-arresting system.**

- 5.1. Ensure fall-arresting system is wiped down with a clean dry rag.
- 5.2. Store the system in its original carton and place in a dry place to prevent rust and corrosion.

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**NOTE:**

After cleaning equipment, it should be inspected following the guidelines in AFQTP 3E4X2-17, Unit 4, Inspect Specialized Protective Equipment (17.4.1.) page 4.

**REVIEW QUESTIONS  
FOR  
MAINTAIN SPECIALIZED PROTECTIVE EQUIPMENT**

<b>QUESTION</b>	<b>ANSWER</b>
1. To clean a respirator, use _____.	a. a cleaner disinfectant and a soft brush. b. scouring powder and a sponge. c. window cleaner and a soft brush. d. boiling water and a sponge.
2. Why should the ends of a hose be connected together?	a. To keep it from unrolling. b. To make it easier to carry. c. To keep dirt and moisture out. d. To keep pressure in the line.
3. What should be done if the hydrostatic test date on the breathing air bottle is more than 5 years old?	a. Remove all air from the bottle and discard. b. Remove the bottle from service until it gets re-certified. c. Use it anyway; just get it re-certified sometime. d. Stamp new dates on the bottle.
4. The fall-arresting system should be stored in a dry place to prevent rust and corrosion.	a. True. b. False.

**Notice.** This AFQTP is *NOT* intended to replace the applicable technical references nor is it intended to replace hands-on training. It is to be used in conjunction with these for training purposes only.

## MAINTAIN SPECIALIZED PROTECTIVE EQUIPMENT

### PERFORMANCE CHECKLIST

#### INSTRUCTIONS:

The trainee must satisfactorily perform all parts of the task without assistance. Evaluate the trainee's performance using this checklist.

DID THE TRAINEE....?	YES	NO
1. Clean respirator and update AF 1071		
2. Clean other breathing equipment properly		
3. Check hydrostatic test date on breathing air bottles		
4. Clean harness and lifeline properly		
5. Clean and store the fall-arresting system properly		

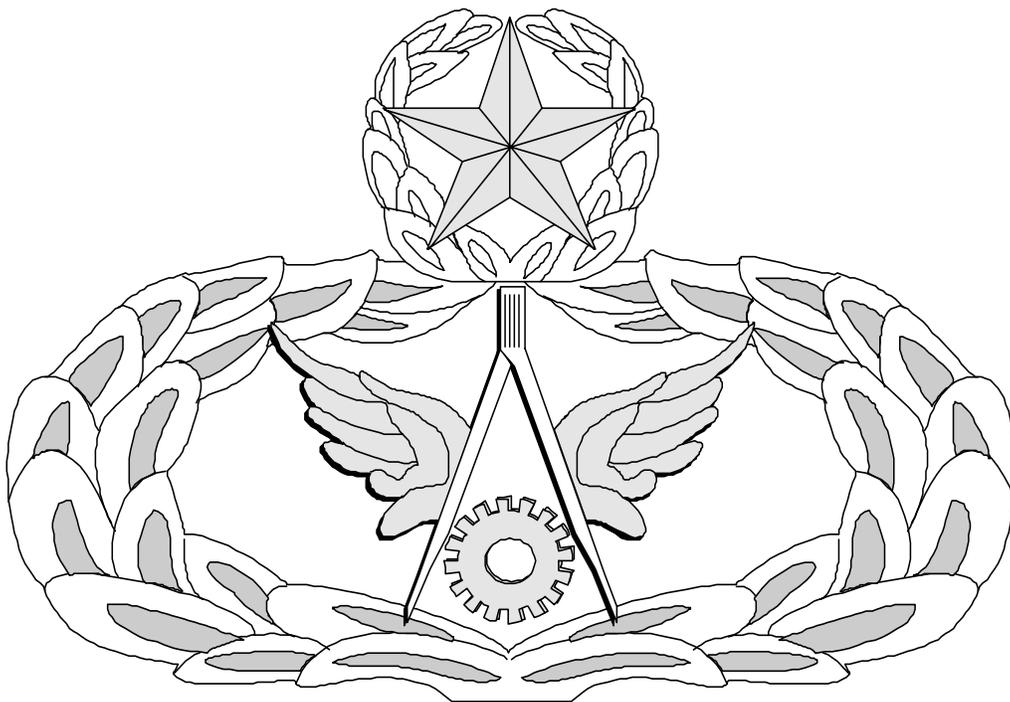
**FEEDBACK:** Trainer should provide both positive and/or negative feedback to the trainee immediately after the task is performed. This will ensure the issue is still fresh in the mind of both the trainee and trainer.

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# Air Force Civil Engineer

## QUALIFICATION TRAINING PACKAGE (QTP)

### REVIEW ANSWER KEY



FOR  
LIQUID FUEL SYSTEMS MAINTENANCE  
(3E4X2)

MODULE 17

TANK / CONFINED SPACE ENTRY

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**Key-1**

**INSPECT SPECIALIZED PROTECTIVE EQUIPMENT  
(3E4X2-17.4.1.)**

QUESTION	ANSWER
1. A damaged respirator part can be repaired.	b. False.
2. The monthly inspection for type "C" respirators is documented on _____.	c. AF Form 1071.
3. Breathing air bottles must be inspected for _____.	d. corrosion, damage, and current hydrostatic test date.
4. _____ has (have) a five year service life from the date of first use	c. Lifelines
5. If a harness has _____ defect(s) or is older than 10 years, it must be destroyed	a. 1
6. Fall-arresting systems must be inspected?	d. Before use and annually.

**USE SPECIALIZED PROTECTIVE EQUIPMENT  
(3E4X2-17.4.2.)**

QUESTION	ANSWER
1. The LFM NCOIC is responsible for the respiratory protection program	b. False.
2. The only types of respirators that can be used for tank cleaning are _____.	d. Both a and b.
3. Who conducts initial respirator fit testing?	a. Bioenvironmental Engineering Service.
4. What is the best method of rescue?	b. Self-rescue.
5. Fall-arresting systems are connected to the harness prior to entering underground storage tanks.	b. True.

**MAINTAIN SPECIALIZED PROTECTIVE EQUIPMENT  
(3E4X2-17.4.3.)**

QUESTION	ANSWER
1. To clean a respirator, use _____.	a. a cleaner disinfectant and a soft brush.
2. Why should the ends of a hose be connected together?	c. To keep dirt and moisture out.
3. What should be done if the hydrostatic test date on the breathing air bottle is more than 5 years old?	b. Remove the bottle from service until it gets re-certified.
4. The fall-arresting system should be stored in a dry place to prevent rust and corrosion.	a. True.

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MEMORANDUM FOR HQ AFCESA/CEOF  
139 Barnes Drive Suite 1  
Tyndall AFB, FL 32403-5319

FROM:

SUBJECT: Qualification Training Package Improvement

1. Identify module.

Module # and title \_\_\_\_\_

2. Identify improvement/correction section(s):

- |  |  |
|--|--|
| <input type="checkbox"/> STS Task Reference        | <input type="checkbox"/> Performance Checklist |
| <input type="checkbox"/> Training Reference        | <input type="checkbox"/> Feedback              |
| <input type="checkbox"/> Evaluation Instructions   | <input type="checkbox"/> Format                |
| <input type="checkbox"/> Performance Resources     | <input type="checkbox"/> Other                 |
| <input type="checkbox"/> Steps in Task Performance |  |

3. Recommended changes--use a continuation sheet if necessary.

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4. You may choose to call in your recommendations to DSN 523-6380 or FAX DSN/Commercial 523-6488 or (850) 283-6488 or email [ceof.helpdesk@tyndall.af.mil](mailto:ceof.helpdesk@tyndall.af.mil).

5. Thank you for your time and interest.

YOUR NAME, RANK, USAF  
Title/Position