

Summary Report for Individual Task
031-627-1023
Operate the TruDefender™ Fourier Transform (FT) Spectrometer
Status: Approved

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD5 - This product/publication has been reviewed by the product developers in coordination with the USACBRNS foreign disclosure representative and the MSCoE foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.

Condition: As a member of a reconnaissance, survey, or sampling team, operate the TruDefender FT spectrometer to identify chemicals in liquid and solid forms. You are given a TruDefender FT spectrometer with an operator's manual, a TruDefender FT Quick Reference Guide, and all components/accessories.

Standard: Operate the TruDefender FT spectrometer by performing preoperation, operation, and post-operation procedures in accordance with (IAW) the operator's manual. Follow all safety notes, and perform all procedures without injuring self or others, or damaging the TruDefender FT spectrometer.

Special Condition: None

Safety Risk: Low

MOPP 4:

Task Statements

Cue: None

DANGER
None

WARNING
None

CAUTION
None

Remarks: None

Notes: None

Performance Steps

1. Perform preoperation procedures IAW the operator's manual.
 - a. Adhere to all safety notes and requirements.
 - b. Inventory equipment for completeness.
 - c. Ensure sufficient number of batteries are on-hand to complete the mission.
 - d. Perform all before operation checks, services, and tests.
 - e. Configure the equipment for operation.

2. Perform operation procedures IAW the operator's manual.
 - a. Adhere to all safety notes and requirements.
 - b. Perform start-up procedures.
 - c. Employ the equipment to perform the desired operational procedure (i.e. identify, monitor, detect, sample, etc.)
 - d. Perform during operation checks, services, and tests.

3. Perform post-operation procedures IAW the operator's manual.
 - a. Adhere to all safety notes and requirements.
 - b. Perform shut-down procedures.
 - c. Perform after operation checks, services, and tests.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Read the action, conditions, and standards to the Soldier. Tell the Soldier that he will be assessed on his ability to perform the task using a GO/NO GO rating system. Inform him that to receive an overall GO on the assessment, that he must receive a GO on each of the task's Performance Measures. Provide the Soldier with the prior prepared 5X8 scenario card. While the Soldier is performing the task provide additional scenario and simulated guidance as necessary for the Soldier to complete the task (i.e. "The liquid in the container you are scanning is a volatile liquid." By stating it is a volatile liquid, you can now observe the Soldier to determine if he uses this information, and switches from the normal method of scanning liquids (without the Sample Crusher attached), and places a droplet of the liquid inside the Sample Crusher prior to scanning.

Evaluation Preparation: Gather all items in the task's conditions statement (i.e. TruDefender™ FT spectrometer, with all components and accessories, batteries, operator's manual, etc.) and place them on a table. Prepare a 5X8 card with a scenario on it that cues the Soldier to perform all task steps. For example: "You are a member of a CBRN Survey team that has been given a mission to identify what chemical is inside 55 gallon drums located in an abandoned chemical plant's warehouse. To prepare for the mission you must perform preoperation procedures on your TruDefender™ FT spectrometer. After the mission is complete you must perform post-operation procedures on the TruDefender™ FT spectrometer.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Performed preoperation procedures IAW the operator's manual.			
2. Performed operation procedures IAW the operator's manual.			
3. Performed post-operation procedures IAW the operator's manual.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	OPER MANUAL	Operator Manual	Yes	No

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT.

Safety: In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk Management. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination.

Prerequisite Individual Tasks : None

Supporting Individual Tasks : None

Supported Individual Tasks : None

Supported Collective Tasks : None

ICTL Data :

ICTL Title	Personnel Type	MOS Data
MOS 74D - CBRN Specialist - SL1	Enlisted	MOS: 74D, Skill Level: SL1
74A, CBRN Officer BOLC - Version 13	Officer	AOC: 74A, Rank: 1LT