

**Report Date:** 14 Apr 2014

**Summary Report for Individual Task  
551-88K-4710  
Conduct Operations of a Vessel's Fathometer  
Status: Approved**

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DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE: None

**Condition:** Assigned as a First Mate onboard a Class A1 Army vessel in port or at sea, given a completed risk assessment, an Operational Plan/Operations Order (OPLAN/OPORDER), all applicable publications, forms, and records, tools, materials, personnel, and equipment, day or night, in all weather conditions and all MOPP levels in an operational environment scenario. Some iterations of this task should be performed in MOPP 4.

**Standard:** Conduct operations while using the vessel fathometer without injury to personnel or damage to equipment.

**Special Condition:** None

**Safety Level:** Low

**MOPP:** Sometimes

**Task Statements**

**Cue:** Given an OPORDER/OPLAN to conduct operations of a vessel's fathometer.

**DANGER**

None

**WARNING**

None

**CAUTION**

None

**Remarks:** None

**Notes:** This task may be performed on any vessel equipped with a fathometer.

### Performance Steps

1. Determine an Estimated Position (EP) from a line of soundings using the FATHOMETER.

Note: (1) You must keep in mind the fathometer reads depths under the keel. So you must add the vessels draft to the sounding when aligning with the chart. (2) When operating in areas with considerable tidal range you must calculate the state of the tide as well. (3) This method cannot be used over a continuously flat, featureless bottom.

2. Process Hydrographic Data.

a. Assess vessel approach information.

b. Assess tide and current accuracy.

3. Determine preferred track.

(Asterisks indicates a leader performance step.)

**Evaluation Guidance:** Score the Soldier GO if all performance steps are passed (P). Score the Soldier NO-GO if any performance step is failed (F). If the Soldier fails any step, show what was done wrong and how to do it correctly.

**Evaluation Preparation:** Ensure that all materials required to perform the task are available. Tell the Soldier that he/she will be evaluated on conducting operations of a vessel's fathometer.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Determined an Estimated Position (EP) from a line of soundings using the FATHOMETER.			
2. Processed hydrographic data.			
3. Determined preferred track.			

### Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	DUTTON	DUTTON'S NAVIGATION AND PILOTING 14th EDITION	No	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.

AR 200-1 delineates TRADOC responsibilities to integrate environmental requirements across DOTMLPF and ensures all training procedures, training manuals, and training doctrine includes sound environmental practices and considerations. The Army's environmental vision is to be a national leader in environmental and natural resource stewardship for present and future generations as an integral part of all Army missions. Environmental protection is never completed. Continuously be alert to ways to protect our environment and reduce waste. Leaders must ensure that their unit has an active and strong environmental program. They must understand the laws and know what actions to take.

Leaders bring focus, direction, and commitment to environmental protection. Commanding officers should ensure the following environmental programs are in place and are being maintained:

- Hazardous materials program.
- Hazardous waste program.
- Hazardous communications program.
- Pollution prevention and hazardous waste minimization recycling program
- Spill prevention and response plan program.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET 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.

All operations will be performed to protect and preserve Army personnel and property against accidental loss. Procedures will provide for public safety incidental to Army operations and activities and safe and healthful workplaces, procedures, and equipment. Observe all safety and/or environment precautions regarding electricity, cable, and lines. Provide ventilation for exhaust fumes during equipment operation and use hearing protection when required IAW AR 385-10, the Clean Air Act (CAA) and the CAA amendments, and the OSHA Hazard Communication standard.

Accidents are an unacceptable impediment to Army missions, readiness, morale, and resources. Decision makers at every level will employ risk management approaches to effectively preclude unacceptable risk to the safety of personnel and property affiliated with this task.

- (a) Take personal responsibility.
- (b) Practice safe operations.
- (c) Recognize unsafe acts and conditions.
- (d) Take action to prevent accidents.
- (e) Report unsafe acts and conditions.
- (f) Work as a team.

**Prerequisite Individual Tasks :**

Task Number	Title	Proponent	Status
551-88K-1504	Perform Vessel Pre-Sail Requirements	551 - Transportation (Individual)	Approved
551-88K-1705	Operate a Vessel's Electric Gyro System	551 - Transportation (Individual)	Approved
551-88K-1507	Prepare a Class A and B Vessel for Beaching Operations	551 - Transportation (Individual)	Approved
551-88K-1708	Maintain a Vessel's Nautical Charts and Publications	551 - Transportation (Individual)	Approved
551-88K-1707	Determine Nautical Direction Using the Vessel's Magnetic Compass	551 - Transportation (Individual)	Approved

**Supporting Individual Tasks :**

Task Number	Title	Proponent	Status
551-880-9051	NAVIGATE VESSEL USING NAUTICAL CHARTS	551 - Transportation (Individual)	Approved
551-880-8016	APPLY MAGNETIC COMPASS ERROR	551 - Transportation (Individual)	Approved
551-880-8007	Conduct Beaching Operations	551 - Transportation (Individual)	Analysis
551-880-8027	Navigate Using Nautical Charts	551 - Transportation (Individual)	Analysis

**Supported Individual Tasks :**

Task Number	Title	Proponent	Status
551-880-8011	RENDER ASSISTANCE TO A DISABLED VESSEL	551 - Transportation (Individual)	Approved
551-880-8008	OPERATE A CLASS A1 VESSEL	551 - Transportation (Individual)	Approved

**Supported Collective Tasks :**

Task Number	Title	Proponent	Status
55-2-1508	Conduct Vessel Operations	55 - Transportation (Collective)	Approved
55-2-1503	Prepare Vessel for Sea	55 - Transportation (Collective)	Approved
55-5-0016	Direct Vessel Operations	55 - Transportation (Collective)	Approved
55-2-1506	React to Shipboard Emergency Aboard an Army vessel	55 - Transportation (Collective)	Approved

**ICTL Data :**

ICTL Title	Personnel Type	MOS Data
MOS 88K Watercraft Operator SL 4	Enlisted	MOS: 88K, Skill Level: SL4, Duty Pos: TFJ