

Report Date: 14 Apr 2014

**Summary Report for Individual Task
551-88K-4701
Analyze Weather Conditions Onboard a Vessel
Status: Approved**

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

DESTRUCTION NOTICE: None

Condition: As a Small Tug Master/First Mate or a boatswain aboard various types of Army watercraft in an Operational Environment (OE), you will be required to analyze the weather conditions onboard your vessel and record your reading in the vessel log. GIVEN an Operation Order/Operations Plan (OPORD/OPLAN): vessel and weather equipments (Beaufort's scale, Barometer, thermometer, Aneroid Barometer Hygrometer and Psychrometer, Anemometer, vessel log, AR 56-9, PUB. NO. 9, TC 4-15.51, VESSEL LOG BOOK and available TM's and FM's).
Some iterations of this task should be performed in MOPP 4.

Standard: You will be required to analyze the weather conditions using the equipments onboard your vessel to determine the weather conditions, and record your reading in the vessel log, IAW references.

Special Condition: None

Safety Level: Low

MOPP: Sometimes

Task Statements

Cue: None

DANGER
None

WARNING
None

CAUTION
None

Remarks: None

Notes: None

Performance Steps

1. Analyze the force in number as it reads on the beaufort's scale to determine the description of the wind, Miles per hours (MPH).
2. Analyze the barometer readings in inches and hundredths of inches to include the wind direction.
3. Analyze the temperature by using:
 - a. Air Dry Bulb- enter the air temperature as read from an outdoor dry bulb thermometer.
 - b. Air Wet Bulb- enter the air temperature as read from an outdoor wet bulb thermometer.
 - c. Weather By symbol- Enter the symbol or combination of symbols as appears in your vessel log class A&B.
4. Analyze cloud definitions and moving form as indicate the direction in point of the compass from which cloud is moving.
5. Enter the condition of the sea by the use of numerals as described in the class A&B log.
6. Enter the visibility by the numerals as described in the class A&B log.
7. Identify Atmosphere and appearance of heavens: as instructed in the vessel log.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the soldier GO if all steps are passed (P). Score the soldier NO-GO if any steps 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 information, references and equipment required to perform the task are available. Use the FM and the evaluation guide to score the soldier's performance. Brief the soldier. Tell the soldier what he is required to do IAW the task conditions and standards.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Analyzed the force in number as it reads on the beaufort's scale to determine the description of the wind, Miles per hours (MPH).			
2. Analyzed the barometer readings in inches and hundredths of inches to include the wind direction.			
3. Analyzed the temperature by using:			
4. Analyzed cloud definitions and moving form as indicate the direction in point of the compass from which cloud is moving.			
5. Entered the condition of the sea by the use of numerals as described in the class A&B log.			
6. Entered the visibility by the numerals as described in the class A&B log.			
7. Identified Atmosphere and appearance of heavens: as instructed in the vessel log.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	AR 56-9	Watercraft	Yes	No
	PUB. NO. 9	The American Practical Navigator - Bowditch	No	No
	TC 4-15.51	MARINE CREWMAN'S HANDBOOK	Yes	No
	VESSEL LOG BOOK	VESSEL LOG BOOK	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. 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-3511	Monitor Watch Standing Procedures Onboard a Vessel	551 - Transportation (Individual)	Approved

Supporting Individual Tasks :

Task Number	Title	Proponent	Status
551-880-9020	IDENTIFY WORSENING SEA CONDITIONS WHILE OCEAN TOWING	551 - Transportation (Individual)	Approved

Supported Individual Tasks :

Task Number	Title	Proponent	Status
551-88K-2701	Observe Weather Conditions Onboard a Vessel	551 - Transportation (Individual)	Approved
551-88K-2515	Conduct Watch Standing Procedures Onboard a Class B Vessel	551 - Transportation (Individual)	Approved

551-88K-2702	Perform Visual Communication Onboard a Vessel	551 - Transportation (Individual)	Approved
--------------	---	-----------------------------------	----------

Supported Collective Tasks :

Task Number	Title	Proponent	Status
55-5-0016	Direct Vessel Operations	55 - Transportation (Collective)	Approved
55-2-0080	Provide Operational Control for Vessels	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