

Training and Evaluation Outline Report

Status: Approved

04 Dec 2014

Effective Date: 17 Oct 2016

Task Number: 05-PLT-5500

Task Title: Perform Hydrographic Reconnaissance and Surveys to Include Seas, Rivers, Lakes and Inland Waterways

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

Destruction Notice: None

Foreign Disclosure: FD1 - This training product has been reviewed by the training developers in coordination with the MSCoE foreign disclosure officer. This training product can be used to instruct international military students from all approved countries without restrictions.

Supporting Reference(s):

| Step Number | Reference ID | Reference Name | Required | Primary |
|-------------|---|--|----------|---------|
| | ATP 3-90.4 | Combined Arms Mobility | Yes | No |
| | ATP 5-19 (Change 001 09/08/2014 78 Pages) | RISK MANAGEMENT http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/atp5_19.pdf | Yes | No |
| | SS521-AG-PRO-010 | U.S. Navy Diving Manual. Revision 6 | Yes | No |
| | TM 3-34.83 | ENGINEER DIVING OPERATIONS | Yes | Yes |

Conditions: The element is directed to conduct a hydrographic reconnaissance at a designated site, adjacent to a land mass, and a calm sea state with swells less than three feet and current less than one knot. All assigned personnel and equipment, including a boat with motor, Hydrographic Survey Set (HYSS) and side scan sonar are available.

Note: The Commander must still determine at what level of training they would want the element to perform. Crawl, walk or run. This can only be determined after consideration as to the units training level.

The Commander prior to evaluating an element in the conduct of the task must determine if it will be conducted in a Live, Virtual, or Constructive environment, additionally it must also be determined which condition as described below that the element will conduct the task. The selection made for this task is at a trained level of proficiency. The commander must determine which of the environments below will best suit the unit and the proficiency level at which the unit is. When conducting crawl or walk level training units should not increase the intensity until the unit has achieved the standards and then unit trainers should include variables that increase proficiency in all conditions.

Note: The condition statement for this task is written assuming the highest training conditions reflected on the Task Proficiency matrix required for the evaluated unit to receive a "fully trained" (T) rating.

Note: Condition terms definitions:

Dynamic Operational Environment: Three or more operational and two or more mission variables change during the execution of the assessed task. Operational variables and threat Tactics, Techniques, and Procedures (TTPs) for assigned counter-tasks change in response to the execution of Blue Forces (BLUFOR) tasks.

Complex Operational Environment: Changes to four or more operational variables impact the chosen friendly COA/mission. Brigade and higher units require all eight operational variables of Political, Military, Economic, Social, Infrastructure, Information, Physical environment, and Time (PMESII-PT) to be replicated in varying degrees based on the task being trained.

Single threat: Regular, irregular, criminal or terrorist forces are present.

Hybrid threat: Diverse and dynamic combination of regular forces, irregular forces, and/or criminal elements all unified to achieve mutually benefiting effects.

This task should not be trained in MOPP 4.

Standards: The element collects and records all required reconnaissance or survey data in accordance with the standards specified in the directive, not later than the time specified, without injuring personnel or damaging equipment or the environment.

Note: Leaders are defined as the Commander, Executive Officer, First Sergeant, Operations Sergeant, Platoon Leaders, Platoon Sergeants, Squad Leaders, and Team Leaders.

Live Fire Required: No

Objective Task Evaluation Criteria Matrix:

| Plan and Prepare | | Execute | | | | | Assess | |
|-------------------------|-----------------------------|---|--------------------------|---------------|-----------------------------|--------------------------------------|------------------------------------|-----------------|
| Operational Environment | Training Environment (LW/C) | Training/Authorized % of Leaders Present at | % of Soldiers Present at | External Eval | % Performance Measures 'GO' | % Critical Performance Measures 'GO' | % Leader Performance Measures 'GO' | Task Assessment |
| SQD & PLT | | | | | | | | |
| Dynamic (Single Threat) | IAW unit CATS statement. | >=85% | | Yes | >=91% | All | >=90% | T |
| Static (Single Threat) | | 75-84% | >=80% | | 80-90% | | 80-89% | T- |
| | | 65-74% | 75-79% | 65-79% | | P | | |
| | | 60-64% | 60-74% | 51-64% | | P- | | |
| | | <=59% | <=59% | <=50% | <All | <=79% | U | |
| Day | | | | | | | | |

Remarks: None

Notes: All required references and technical manuals will be provided by the local command.

Safety Risk: Medium

Task Statements

Cue: None

DANGER

Leaders have an inherent responsibility to conduct Risk Management to ensure the safety of all Soldiers and promote mission accomplishment.

WARNING

Risk management is the Army's primary decision-making process to identify hazards, reduce risk, and prevent both accidental and tactical loss. All Soldiers have the responsibility to learn and understand the risks associated with this task.

CAUTION

Identifying hazards and controlling risks across the full spectrum of Army functions, operations and activities is the responsibility of all Soldiers.

Supporting Collective Task(s):

| Step Number | Task Number | Title | Proponent | Status |
|-------------|-------------|--|---------------------------------|----------|
| 1. | 05-CO-0007 | Prepare an Operation Order (OPORD) | 05 - Engineers (Collective) | Approved |
| 2. | 71-CO-5100 | Conduct Troop Leading Procedures for Companies | 71 - Combined Arms (Collective) | Approved |
| 3. | 05-CO-0018 | Conduct Report Procedures | 05 - Engineers (Collective) | Approved |

OPFOR Task(s):

| Task Number | Title | Status |
|-------------|-----------------------------------|----------|
| 71-2-9010 | OPFOR Disrupt (Company and below) | Approved |

Supporting Individual Task(s):

| Step Number | Task Number | Title | Proponent | Status |
|-------------|--------------|---|-----------------------------|----------|
| | 052-210-1213 | Manage Traverse Survey | 052 - Engineer (Individual) | Approved |
| | 052-210-1214 | Manage Differential Leveling | 052 - Engineer (Individual) | Approved |
| | 052-210-1215 | Manage Site Plan Preparations for Vertical Construction | 052 - Engineer (Individual) | Approved |
| | 052-210-1251 | Manage Post Processing Technique Kinematic (PPRTK) Survey with DGPS | 052 - Engineer (Individual) | Approved |
| | 052-238-1531 | Perform Underwater Searches | 052 - Engineer (Individual) | Approved |
| | 052-238-1532 | Perform a River Reconnaissance | 052 - Engineer (Individual) | Approved |
| | 052-238-1533 | Navigate Underwater by Compass | 052 - Engineer (Individual) | Approved |
| | 052-238-1607 | Perform Underwater Photography | 052 - Engineer (Individual) | Approved |
| | 052-238-3410 | Direct a Hasty Hydrographic Survey Operation | 052 - Engineer (Individual) | Approved |
| | 052-238-3412 | Select a Decompression Method | 052 - Engineer (Individual) | Approved |
| | 052-238-3413 | Supervise a Scuba Dive Station | 052 - Engineer (Individual) | Approved |
| | 052-238-3416 | Calculate Breathing Gas Requirements to Support Diving Operations | 052 - Engineer (Individual) | Approved |
| | 052-238-3430 | Supervise a River Reconnaissance Team | 052 - Engineer (Individual) | Approved |
| | 052-238-3431 | Conduct a Pre-dive Briefing of a Scuba Dive Station | 052 - Engineer (Individual) | Approved |
| | 052-238-4507 | Coordinate River Reconnaissance Missions | 052 - Engineer (Individual) | Approved |
| | 052-238-4508 | Prepare a Diving-Mission Operation Order (OPORD) | 052 - Engineer (Individual) | Approved |

Supporting Drill(s): None

Supported AUTL/UJTL Task(s):

| Task ID | Title |
|-----------|-----------------------|
| ART 1.6.4 | Provide Diver Support |

TADSS

| TADSS ID | Title | Product Type | Quantity |
|--------------------|-------|--------------|----------|
| No TADSS specified | | | |

Equipment (LIN)

| LIN | Nomenclature | Qty |
|--------|----------------------|-----|
| D32791 | DIV EQ ST PHOTO SUPP | 1 |
| D32723 | DIV EQ ST OPEN CIR | 1 |
| D49154 | DIV EQ ST IND SWMMR | 1 |
| D32859 | DIV EQ ST DIV SUP A | 1 |

Material Items (NSN)

| NSN | LIN | Title | Qty |
|-----------------------------|-----|-------|-----|
| No materiel items specified | | | |

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 the current Environmental Considerations manual and the current GTA Environmental-related Risk Assessment card. .

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. .