

# Training and Evaluation Outline Report

**Status: Approved**

**30 Jan 2015**

**Effective Date: 19 Oct 2016**

**Task Number:** 05-TM-5555

**Task Title:** Install Conventional Underwater Anchor System

**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 Fort Leonard Wood, 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 5-19 (Change 001 09/08/2014 78 Pages)	RISK MANAGEMENT <a href="http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/atp5_19.pdf">http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/atp5_19.pdf</a>	Yes	No
	NTRP 4-04.2.8	Conventional Underwater Construction and Repair Techniques	Yes	No
	SS521-AG-PRO-010	U.S. Navy Diving Manual. Revision 6	Yes	No
	TM 3-34.73	PORT CONSTRUCTION AND REPAIR	Yes	Yes

**Conditions:** The element is directed to install a conventional underwater anchor system utilizing prefabricated concrete anchors and/or sinkers at a designated port facility. Engineer reconnaissance reports, plans and specifications for the anchor system, and all personnel and equipment assigned by Table of Organization and Equipment (TOE) are available. A crane and fork lift are available for lifting and moving the prefabricated anchors.

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 installs the conventional underwater anchor system in accordance with the plans and specifications, not later than the time specified in the directive.

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	External Eval	% Performance Measures 'GO'	% Critical Performance Measures 'GO'	% Leader Performance Measures 'GO'	Task Assessment
SQD & PLT								
Dynamic (Single Threat)	Night	>=85%		Yes	>=91%	All	>=90%	<b>T</b>
	Day	75-84%	>=80%		80-90%		80-89%	<b>T-</b>
Static (Single Threat)	Night	65-74%	75-79%	No	65-79%	<All	<=79%	<b>P</b>
	Day	60-64%	60-74%		51-64%			<b>P-</b>
			<=59%		<=59%			<=50%

**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.

### Performance Steps and Measures

**NOTE:** Assess task proficiency using the task evaluation criteria matrix.

**NOTE:** Asterisks (\*) indicate leader steps; plus signs (+) indicate critical steps.

STEP/MEASURE	GO	NO-GO	N/A
+* 1. The element leaders conduct Troop Leading Procedures (TLP).			
+* 2. The element leader develops a safety plan.			
+ a. Develops a risk assessment matrix.			
+ b. Appoints a work site safety Non-Commissioned Officer (NCO).			
+ c. Develops the dive emergency plan.			
+ d. Briefs the safety plan to the element.			
3. The element lays out the site for work to be accomplished on shore.			
+ a. Off loads, identifies, inventories, and stores materials.			
+ b. Identifies equipment location, parking areas, and docking areas.			
+ 4. The element installs an underwater anchor system.			
+ a. Identifies and marks anchor locations.			
+ b. Moves the diving platform into position.			
+ c. Installs anchor system In Accordance With (IAW) specifications and plans.			
+ d. Connects all required chains, hardware and buoys IAW the plans and specifications.			
+* 5. The element leader supervises installation of the conventional underwater anchor system.			
+ a. Monitors safety of work site.			
+ b. Verifies and records buoy and anchor locations.			
+ c. Submits status reports to higher Headquarters (HQ) IAW unit Standing Operating Procedure (SOP).			
+ d. Conducts After Action Review (AAR).			
+ 6. The element performs recovery operations.			
+ a. Accounts for all tools and dive equipment at the work site.			
+ b. Performs Preventive Maintenance Checks and Services (PMCS) on equipment and dive gear.			
+ c. Inventories and stores tools and dive equipment IAW unit SOP.			

TASK PERFORMANCE / EVALUATION SUMMARY BLOCK							
ITERATION	1	2	3	4	5	M	TOTAL
TOTAL PERFORMANCE MEASURES EVALUATED							
TOTAL PERFORMANCE MEASURES GO							
TRAINING STATUS GO/NO-GO							

**ITERATION:** 1 2 3 4 5 M

**COMMANDER/LEADER ASSESSMENT:** T P U

**Mission(s) supported:** None

**MOPP 4:** Never

**MOPP 4 Statement:** None

**NVG:** Never

**NVG Statement:** None

**Prerequisite Collective Task(s):**

Step Number	Task Number	Title	Proponent	Status
	05-CO-0018	Conduct Report Procedures	05 - Engineers (Collective)	Approved
	05-PLT-5500	Perform Hydrographic Reconnaissance and Surveys to Include Seas, Rivers, Lakes and Inland Waterways	05 - Engineers (Collective)	Approved

**Supporting Collective Task(s):**

Step Number	Task Number	Title	Proponent	Status
	05-PLT-5504	Inspect Underwater Structures	05 - Engineers (Collective)	Approved
	05-PLT-5505	Repair Underwater Structures	05 - Engineers (Collective)	Approved
	05-PLT-5506	Maintain Underwater Structures	05 - Engineers (Collective)	Approved
1.	71-CO-5100	Conduct Troop Leading Procedures for Companies	71 - Combined Arms (Collective)	Approved

**OPFOR Task(s):**

Task Number	Title	Status
71-CO-8505	OPFOR Execute Reconnaissance	Approved
71-CO-8510	OPFOR Disrupt	Approved

**Supporting Individual Task(s):**

Step Number	Task Number	Title	Proponent	Status
	052-12D-1701	Rescue a Diving Casualty Underwater	052 - Engineer (Individual)	Approved
	052-238-1636	Perform as a Member of a Single Anchor Leg Mooring Emplacement Team	052 - Engineer (Individual)	Approved
	052-238-1639	Chart a Dive	052 - Engineer (Individual)	Approved
	052-238-1640	Operate a Diving Console	052 - Engineer (Individual)	Approved
	052-238-1642	Operate a Compressor	052 - Engineer (Individual)	Approved
	052-238-1645	Charge an Air System	052 - Engineer (Individual)	Approved
	052-238-2511	Direct the Setup of a Scuba Station	052 - Engineer (Individual)	Approved
	052-238-2512	Direct the Setup of a Surface-Supplied Dive Station	052 - Engineer (Individual)	Approved
	052-239-3001	Prepare a Bill of Materials	052 - Engineer (Individual)	Approved
	052-239-3029	Schedule Work	052 - Engineer (Individual)	Approved
	052-239-3030	Read Construction Prints	052 - Engineer (Individual)	Approved
	052-256-3049	Direct Crane Operations	052 - Engineer (Individual)	Approved
	052-256-4143	Schedule Work in a Construction Project	052 - Engineer (Individual)	Approved

**Supporting Drill(s):** None

**Supported AUTL/UJTL Task(s):**

Task ID	Title
ART 1.6.4	Provide Diver Support
ART 4.1.7.2.3	Construct Ports

**TADSS**

TADSS ID	Title	Product Type	Quantity
No TADSS specified			

**Equipment (LIN)**

LIN	Nomenclature	Qty
No equipment specified		

**Material Items (NSN)**

NSN	LIN	Title	Qty
No material 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. .