

# Training and Evaluation Outline Report

**Status: Approved**

**14 Apr 2021**

**Effective Date: 14 Apr 2021**

**Task Number:** 05-PLT-5215

**Task Title:** Install a Coupled Pipeline

**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, Ft. Leonard Wood, MO 65473 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 | Source Information |
|-------------|--------------|--|----------|---------|--------------------|
|             | ATP 3-34.40  | General Engineering<br>( <a href="http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/atp3_34x40.pdf">http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/atp3_34x40.pdf</a> ) | Yes      | Yes     |                    |
|             | ATP 4-43     | Petroleum Supply Operations  | Yes      | No      |                    |
|             | ATP 5-19     | RISK MANAGEMENT, with change 1 dated 8 Sep 2014  | Yes      | No      |                    |
|             | TM 3-34.70   | Plumbing, Pipe Fitting, and Sewerage   | Yes      | No      |                    |

**Conditions:** The element is directed to install a coupled pipeline along a sector of pipeline trace from the fuel source to the Tactical Petroleum Terminal (TPT) in accordance with plans, specifications and Tactical Standing Operating Procedures (TACSOP). All required tools, specialized pipeline equipment, materials and transportation are available. The sector has been cleared and staked. There is an established pipe staging yard with dedicated loading crew, trucks and trailers. Work site security is provided.

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 a coupled pipeline according to the plans, specifications and TACSOP. The element will conduct test with air, water, or fuel on the pipeline. Couplings, valves and pumping stations should be capable of withstanding pressures of up to 740 pounds per square inch, are leak proof, aligned, and anchored. Task completion should be no later than the time established by the directive.

Note: Leaders are defined as the Platoon Leaders, Platoon Sergeants, Squad Leaders, and Team Leaders.

**Live Fire:** No

**Objective Task Evaluation Criteria Matrix:**

| Plan and Prepare        |                              | Execute                              |                              |               |                      |                               | Assess                      |  |                        |          |
|-------------------------|------------------------------|--------------------------------------|------------------------------|---------------|----------------------|-------------------------------|-----------------------------|--|------------------------|----------|
| Operational Environment | Training Environment (L/V/C) | Leaders Present at Training/Required | Present at Training/Required | External Eval | Performance Measures | Critical Performance Measures | Leader Performance Measures | Evaluator's Observed Task Proficiency Rating | Commander's Assessment |          |
| SQD & PLT               |                              |                                      |                              |               |                      |                               |                             |  |                        |          |
| Dynamic (Single Threat) | IAW unit CATS statement.     | >=85%                                | >=80%                        | Yes           | >=91%                | All                           | >=90%                       | <b>T</b>                                     | <b>T</b>               |          |
|                         |                              | 75-84%                               |                              |               |                      |                               |                             |  |                        | 80-90%   |
| Static (Single Threat)  |                              | Day                                  | 65-74%                       | 75-79%        | No                   | 65-79%                        | <All                        | 80-89%                                       | <b>P</b>               | <b>P</b> |
|                         |                              |                                      | 60-64%                       | 60-74%        |                      | 51-64%                        |                             | <b>P-</b>                                    | <b>P-</b>              |          |
|                         |                              |                                      | <=59%                        | <=59%         | <=50%                | <=79%                         | <b>U</b>                    | <b>U</b>                                     |                        |          |
|                         |                              |                                      |                              |               |                      |                               |                             |  |                        |          |

**Remarks:** None

**Notes:** None

**Task Statements**

**Cue:** None

**DANGER**

Suspend all handling of the pipeline system when an electrical storm is within a 5-mile radius of your operation, during high winds, or when your commander notifies you.

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

**WARNING**

Be very careful when stringing pipe at night. Soldiers could be injured by a moving truck.

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.



- (4) Coordinates placement of firefighting equipment and crews on site for duration of the test.
- (5) Places a tanker vehicle and drums on standby to drain a section of line.
- (6) Ensures that shovels and materials to dig and line a pit are at the site in case of a spill.
- + e. Establishes a Prescribed Load List (PLL) for the gaining unit.
- +\* 10. The element leader submits status reports to higher Headquarters (HQ) according to the unit SOP.

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| Task Performance Summary Block                           |  |                                      |             |   |             |   |             |   |             |   |
|--|--|--------------------------------------|-------------|---|-------------|---|-------------|---|-------------|---|
| Training Unit  |  |                                      | ITERATION   |   |             |   |             |   |             |   |
|  |  |                                      | 1           |   | 2           |   | 3           |   | 4           |   |
| Date of Training per Iteration:                          |  |                                      |             |   |             |   |             |   |             |   |
| Day or Night Training:                                   |  |                                      | Day / Night |   | Day / Night |   | Day / Night |   | Day / Night |   |
|  |  |                                      | #           | % | #           | % | #           | % | #           | % |
| Total Leaders Authorized                                 |  | % Leaders Present                    |             |   |             |   |             |   |             |   |
| Total Soldiers Authorized                                |  | % Soldiers Present                   |             |   |             |   |             |   |             |   |
| Total Number of Performance Measures                     |  | % Performance Measures 'GO'          |             |   |             |   |             |   |             |   |
| Total Number of Critical Performance Measures            |  | % Critical Performance Measures 'GO' |             |   |             |   |             |   |             |   |
| Live Fire, Total Number of Critical Performance Measures |  | % Critical Performance Measures 'GO' |             |   |             |   |             |   |             |   |
| Total Number of Leader Performance Measures              |  | % Leader Performance Measures 'GO'   |             |   |             |   |             |   |             |   |
| MOPP LEVEL   |  |                                      |             |   |             |   |             |   |             |   |
| Evaluated Rating per Iteration<br>T, T-, P, 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-5250  | Perform Construction Operations | 05 - Engineers (Collective) | Approved |

**Supporting Collective Task(s):**

| Step Number | Task Number | Title  | Proponent                         | Status   |
|-------------|-------------|--|-----------------------------------|----------|
| 1.          | 71-PLT-5100 | Conduct Troop Leading Procedures                               | 71 - Mission Command (Collective) | Approved |
| 2.          | 05-CO-5001  | Perform Project Management                                     | 05 - Engineers (Collective)       | Approved |
| 2.          | 05-PLT-5310 | Prepare Pipeline Route Profile                                 | 05 - Engineers (Collective)       | Approved |
| 3.          | 05-PLT-3006 | Establish Work Site Security for a General Engineering Mission | 05 - Engineers (Collective)       | Approved |
| 5.          | 05-PLT-5305 | Install Underground Pipeline Crossing Site                     | 05 - Engineers (Collective)       | Approved |
| 5.          | 05-PLT-5306 | Install Pipeline Pumping Stations                              | 05 - Engineers (Collective)       | Approved |
| 6.          | 05-PLT-5309 | Repair a Pipeline  | 05 - Engineers (Collective)       | Approved |
| 7.          | 05-PLT-5301 | Construct Pipeline Suspension Supports                         | 05 - Engineers (Collective)       | Approved |
| 7.          | 05-PLT-5300 | Construct Expedient Coupled Pipeline Supports                  | 05 - Engineers (Collective)       | Approved |
| 9.          | 05-PLT-5308 | Test Pipeline System   | 05 - Engineers (Collective)       | Approved |
| 10.         | 05-CO-0018  | Conduct Report Procedures                                      | 05 - Engineers (Collective)       | Approved |

**OPFOR Task(s):**

| Task Number | Title                                 | Status   |
|-------------|---------------------------------------|----------|
| 71-CO-8502  | OPFOR Execute an Ambush               | Approved |
| 71-CO-8504  | OPFOR Execute a Reconnaissance Attack | Approved |

**Supporting Individual Task(s):**

| Step Number | Task Number  | Title   | Proponent                   | Status   |
|-------------|--------------|---|-----------------------------|----------|
|             | 052-120-5100 | Develop Base Camp Master Plan   | 052 - Engineer (Individual) | Approved |
|             | 052-120-5107 | Plan the Construction of Utility Systems for Non-Permanent Structures | 052 - Engineer (Individual) | Approved |
|             | 052-12K-1061 | Maintain Plumbing Tools   | 052 - Engineer (Individual) | Approved |
|             | 052-12T-3011 | Conduct an Engineer Construction Reconnaissance                       | 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 |
|             | 052-239-3036 | Supervise the Installation of Pipelines                               | 052 - Engineer (Individual) | Approved |
|             | 052-248-1013 | Install a Coupled Pipeline  | 052 - Engineer (Individual) | Approved |
|             | 052-248-1014 | Repair a Coupled Pipeline   | 052 - Engineer (Individual) | Approved |
|             | 052-248-1016 | Install Components With a Pumping Station                             | 052 - Engineer (Individual) | Approved |
|             | 052-248-1021 | Identify Plumbing Materials   | 052 - Engineer (Individual) | Approved |
|             | 052-248-1040 | Interpret Plumbing Prints and Drawings                                | 052 - Engineer (Individual) | Approved |
|             | 052-248-1056 | Prepare a Plumbing-Materials Takeoff List                             | 052 - Engineer (Individual) | Approved |
|             | 052-248-2003 | Emplace a Flexible Hose Line  | 052 - Engineer (Individual) | Approved |

**Supporting Drill(s):** None

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

| Task ID       | Title                                    |
|---------------|--|
| ART 4.1.7.2.6 | Construct Petroleum Distribution Systems |

**TADSS**

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

**Equipment (LIN)**

| LIN    | Nomenclature  | Qty |
|--------|---|-----|
| W65884 | Tool Kit, Supplement, Pipeline Pump Sta, 4, 6, and 8 Inch | 1   |
| MC8063 | Tool Kit Supplemental, Pipeline C                         | 1   |

**Materiel 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 current Risk Management Doctrine. 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 current CBRN doctrine.