



# UNDERWATER OQ



These tasks are designed to meet the DOT requirements for Operator Qualification for Underwater Covered Tasks

* <b>CT01U</b>	Cathodic Protection Inspection on Underwater Facilities	Explains and evaluates preparing and calibrating test equipment, taking and recording cathodic protection readings, and potential abnormal operating conditions.
* <b>CT02U</b>	Prevent External Corrosion on Underwater Pipeline	Explains and evaluates inspecting and removing damaged coatings, installing wrap and epoxy repairs, and potential abnormal operating conditions.
* <b>CT03U</b>	Measure Wall Thickness of Underwater Pipe	Explains and evaluates preparing pipeline surface for ultrasonic thickness testing, measuring pit dimensions, and potential abnormal operating conditions.
<b>CT04U</b>	Conduct Underwater Cathodic Protection Remediation	Explains and evaluates installing galvanic anodes on submerged pipelines or facilities and potential abnormal operating conditions.
* <b>CT05U</b>	Conduct Temporary Marking of Underwater Pipelines	Explains and evaluates locating a pipeline, determining buried and exposed pipeline depth, installing temporary pipeline markers, and potential abnormal operating conditions.
* <b>CT06U</b>	Conduct Underwater Valve Inspection, Operation, Maintenance and Repair	Explains and evaluates identifying, visually inspecting, operating, greasing, and repairing valves and potential abnormal operating conditions.
* <b>CT07U</b>	Movement of In-service Underwater Pipeline	Explains and evaluates lifting and lowering in-service underwater pipeline, inspecting for secondary stresses, physical damage, and coating damage, determining pipeline depth, and potential abnormal operating conditions.
* <b>CT08U</b>	Abandoning, Safe Disconnect, Purging, and Sealing of Underwater Pipeline	Explains and evaluates isolating, purging, disconnecting underwater pipeline, sealing segments and burying disconnected segments of pipeline, and potential abnormal operating conditions.
* <b>CT09U</b>	Installation, Replacement, or Repair of Support Structures on Underwater Components	Explains and evaluates replacing, repairing, and inspecting support structures, installing and inspecting additional support structure elements, and potential abnormal operating conditions.
* <b>CT10U</b>	Inspection of Underwater Pipeline Facilities	Explains and evaluates inspecting pipeline crossings, flanged tie-ins, repairs, and support structures and potential abnormal operating conditions.
* <b>CT11U</b>	Perform Underwater Pipeline Repair Activities	Explains and evaluates excavating, prepping surface of, and cutting pipeline; installing mechanical split sleeve repair clamps, mechanical couplings, and spool pieces; performing pressure tests; and potential abnormal operating conditions.
<b>CT12U</b>	Operation of an Underwater Assembly	Explains and evaluates identifying and manually operating ball, check, and needle valves on an underwater assembly and potential abnormal operating conditions.
* <b>CT13U</b>	Perform Underwater Pigging Activities	Explains and evaluates performing basic launching and receiving procedures and potential abnormal operating conditions.
* <b>CT14U</b>	Perform Underwater Flange Mating Procedures	Explains and evaluates aligning flanges, installing and removing bolts and ring gasket, plugging or capping the pipeline, and potential abnormal operating conditions.
* <b>CT15U</b>	Perform an Underwater Mechanical Hot Tap	Explains and evaluates removing coating, conducting quality checks, cutting pipeline, removing coupon, repairing coating, and potential abnormal operating conditions.



# FATIGUE MANAGEMENT

These courses are designed to meet the DOT requirements for Control Room Management and provide Control Room personnel with information on the dangers of operational fatigue and steps that can be taken to prevent it.

<b>FMS001</b>	Sleep Basics - Fatigue Management Series	This course provides Control Room personnel with basic information on the physiological and behavioral effects of fatigue.
<b>FMS002</b>	Operational Fatigue Risk Factors - Fatigue Management Series	This course provides Control Room personnel with information on the dangers of operational fatigue and steps that can be taken to prevent it.
<b>FMS004</b>	Fatigue Countermeasure Review - Fatigue Management Series	This course provides Control Room personnel with information on fatigue countermeasures that work and some that are being researched, require supervision, or are ineffective. When combined with other courses in the Fatigue Management Series, these courses provide information on sleep basics, the dangers of operational fatigue and steps to prevent it, and management program components.
<b>FMS005</b>	Fatigue Management Program Components - Fatigue Management Series	This course provides information on components of a Fatigue Management Program as well as periodic evaluation and refinement of the program.