# Scope

This micro-credential sets the minimum requirements for a person to demonstrate competency pre-tensioning a fastener using hydraulic torque tools.

# MICRO-CREDENTIAL Hydraulic Torque Tool

### Did the candidate complete all Workplace Safety Training topics?

#### Candidate MUST

1. Have completed ALL Workplace Safety Training topics prior to attempting this competency

### Did the candidate perform a hazard assessment for the work about to be demonstrated?

#### Candidate MUST

1. Perform a hazard assessment for the area in which they are to demonstrate hydraulic torque tools
2. Use safety glasses as a minimum requirement for PPE
3. Verbally communicate to the evaluator and include all recognized hazards

#### Proper PPE MUST

1. Be selected and inspected for the hazards identified

### Did the candidate locate the proper torque value for the fastener(s) they are preparing to torque?

#### Candidate MUST

1. Use a recognized resource to determine the torque value of the fastener(s) they intend to demonstrate the torque process with
   1. These resources include but are not limited to trades books, service manuals, ASME, ASE or vetted internet resources
2. Evaluator MUST
   1. Verify the torque value BEFORE the candidate demonstrates the torque process

### Did the candidate set up the hydraulic torque tool properly?

#### Candidate MUST

1. Properly connect all hoses, tool head, and power unit
2. Use the correct tool head pressure chart to locate the required pressure setting.
3. Demonstrate setting the correct hydraulic pressure
4. Demonstrate setting the tool head for correct rotational direction as assigned by the evaluator

#### Evaluator is ENCOURAGED

1. Ask the candidate how to determine which direction the tool will rotate without placing it on a fastener

### Did the candidate properly demonstrate torqueing a fastener with the hydraulic torque tool?

#### Candidate MUST

1. Demonstrate torqueing the fastener(s) identified in Step 2
2. Demonstrate proper hand and finger placement while using the tool head
3. Demonstrate how the 'dead man' switch operates
4. Also need to explain why it is important to the tool safety
5. Demonstrate the 'placement and rotation' method of installing the tool on a fastener
6. Demonstrate the procedure for releasing the tool when it becomes bound on a fastener

### Did the candidate demonstrate proper disassembly and storage of the hydraulic torque tool?

#### Candidate MUST

1. Correctly disassemble the torque tool while taking all safety precautions involving pressurized fluids
   1. Hose ends MUST
      1. Be assembled together to prevent dirt intrusion
      2. All protective caps MUST be in place
   2. Tool head, power unit and hoses MUST be inspected for any damages that occurred during use

### Did the candidate perform all tasks safely?

#### Candidate MUST

1. Demonstrate the task safely while incorporating all identified PPE from the hazard assessment in Step A