

## **NITEC IN FABRICATION TECHNOLOGY (MARINE PIPE)**

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### **Module Objectives**

#### **Metal Joining and Cutting**

On completion of the module, trainees should be able to perform marking and cutting of ferrous metal plates and pipes as well as tack welding on steel plates and pipes in flat and horizontal positions.

#### **Pipe Fabricating**

On completion of the module, trainees should be able to prepare cutting plans, perform cutting of edge profiles and fabricate pipe spools in accordance with drawings.

#### **Steel Fabricating**

On completion of the module, trainees should be able to perform tapping of holes, hot bending, cold bending and material take-off.

#### **Single-Plane Pipe Bending**

On completion of the module, trainees should be able to assemble pipe-to-flange and pipe-to-pipe with tack weld as well as perform visual inspection on pipe spools.

#### **Pipe Joining and Cutting**

On completion of the module, trainees should be able to perform cutting and brazing of pipes as well as tack welding of fillet joints.

#### **Double-Plane Pipe Bending**

On completion of the module, trainees should be able to perform cold bending of pipes as well as dye penetrant and leak tests.

#### **Fabrication and Pipe Development**

On completion of the module, trainees should be able to perform pattern development for pipe and plate connections as well as fabricate and assemble pipe spools and assemblies.

#### **Fabrication and Pipe System**

On completion of the module, trainees should be able to perform installation and inspection of pipe spools and piping systems.

#### **On-The-Job Training I**

On completion of the module, trainees should be able to apply and integrate Year 1 skills and knowledge acquired from classroom training, and further develop competencies at the workplace.

#### **On-The-Job Training II**

On completion of the module, trainees should be able to apply and integrate Year 2 skills and knowledge acquired from classroom training, and further develop competencies at the workplace.