

1. Title	Install cast iron pipes and fittings
2. Code	EMCUIN219A
3. Range	<p>Perform simple installation of cast iron pipes and fittings, and common parts at general industrial plants, power plants or premises/work sites where boat, fire fighting, water, gas or pipe works is involved.</p> <p>Perform simple installation of typical copper or aluminum pipes and fittings, at general industrial plants, power plants, ship repair, fire & plumbing, gas engineering or work sites where installation work is involved.</p>
4. Level	2
5. Credits	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Types of pipes and fitting materials</p> <ul style="list-style-type: none"> ◆ Know about the types of pipes, accessories and materials, including: <ul style="list-style-type: none"> • Types of pipes • Types of flanges • Bends and tees • Expansion joints • Joint accessories • Fill materials • Bedding and coating materials • Heat preservation materials <p>6.2 Methods of installing and jointing pipes</p> <ul style="list-style-type: none"> ◆ Capable to apply general repairing and bench fitting techniques, including marking, sawing, chiselling, drilling, scraping, grinding, jointing and sealing, in pipe installation according to requirements ◆ Capable to joint pipes by iron welding, tungsten gas electric arc welding, compressing, threading, flanging, etc ◆ Place rubber gaskets or pads at proper positions to prevent leakage <p>6.3 Professionalism in pipe overhaul and installation</p> <ul style="list-style-type: none"> ◆ Capable to use correct tools in simple installation of cast iron pipes according to requirements ◆ Perform pipe installation according to legal requirements and the code of safety; pass leakage test.
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to install common cast iron pipes and fittings correctly and safely according to pipe-laying and legal requirements and the code of safety; pass the leakage test.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of mechanics and installation skills.