1. Title	Basic metal inert gas (MIG)/gas metal arc welding (GMAW)
2. Code	EMCUIN211A
3. Range	Perform MIG/GMAW tasks on parent materials like carbon steel and aluminum alloy at electrical and mechanical welding workshops or work sites.
4. Level	2
5. Credits	5
6. Competency	Performance Requirements
	<ul> <li>6.1 Code of practice and preparations for Coperate MIG/GMAW equipment and accessories correctly and safely and safely</li> <li>MIG/GMAW</li> <li>Wear proper personal protective gear</li> <li>Protect against electric shock</li> <li>Protect against fire and explosion</li> <li>Protect against harmful arc ray effectively</li> <li>Protect against harmful gases and poisonous fumes</li> <li>Know about the preparations for MIG/GMAW, including to:</li> <li>Understand the general applications and their limitations of MIG/GMAW</li> <li>Understand the types of MIG/GMAW machines, including the wire feeding system and gas supply system</li> <li>Identify the requirements on welding materials of MIG/GMAW, such as welding wire and shielding gas</li> </ul>
	<ul> <li>6.2 Methods and procedures for operating MIG/GMAW</li> <li>MIG/GMAW</li> <li>Perform square edge butt weld at flat position and horizontal positions</li> <li>Perform fillet weld at flat position and horizontal positions</li> <li>Identify various types of common and simple surface weld defects at welded joints, such as undercut, overlap and porosities</li> <li>Avoid causing the simple surface weld defects mentioned above</li> </ul>
	6.3 Professionalism   Perform MIG/GMAW tasks according to relevant safety guidelines and code of practice
7. Assessment Criteria	<ul> <li>The integrated outcome requirement of this unit of competency is:</li> <li>(i) Capable to complete basic MIG/GMAW tasks without causing obvious surface weld defects; and</li> <li>(ii) Capable to perform MIG/GMAW tasks safely.</li> </ul>
8. Remarks	This unit of competency is applicable to general electrical and mechanical welding practitioners.