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
	Code of practice and preparations for MIG/GMAW MIG/GMAW MIG/GMAW Wear proper personal protective gear Protect against electric shock Protect against harmful arc ray effectively Protect against harmful arc ray effectively Protect against harmful gases and poisonous fumes Know about the preparations for MIG/GMAW, including to: Understand the general applications and their limitations of MIG/GMAW Understand the types of MIG/GMAW machines, including the wire feeding system and gas supply system Identify the requirements on welding materials of MIG/GMAW, such as welding wire and shielding gas Apply MIG/GMAW in the following areas: Perform square edge butt weld at flat position and horizontal positions Perform fillet weld at flat position and horizontal positions Identify various types of common and simple surface weld defects at welded joints, such as undercut, overlap and porosities Avoid causing the simple surface weld defects mentioned above
	6.3 Professionalism in Perform MIG/GMAW tasks according to relevant safety guidelines and code of practice
7. Assessment Criteria	The integrated outcome requirement of this unit of competency is:
	(i) Capable to complete basic MIG/GMAW tasks without causing obvious surface weld defects; and
0.7	(ii) Capable to perform MIG/GMAW tasks safely.
8. Remarks	This unit of competency is applicable to general electrical and mechanical welding practitioners.