1. Title	Basic tungsten inert gas(TIG) / gas tungsten arc welding(GTAW)
2. Code	EMCUIN212A
3. Range	Perform TIG/GTAW tasks for electrical and mechanical works on parent materials like carbon steel, stainless 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>Code of practice and preparations for TIG/GTAW</li> <li>Operate TIG/GTAW equipment and accessories correctly and safely</li> <li>Wear proper personal protective gear</li> <li>Protect against electric shock</li> <li>Protect against harmful arc ray effectively</li> <li>Protect against harmful gases and poisonous fumes</li> <li>Follow the safety requirements and instructions on TIG/GTAW</li> <li>Know about the preparations for TIG/GTAW, including:</li> <li>Understand the general applications and their limitations of TIG/GTAW</li> <li>Understand the types of TIG/GTAW machines and polarity requirements</li> <li>Identify the requirements on welding materials of TIG/GTAW, such as tungsten electrode, welding rod and shielding gas</li> </ul>
	<ul> <li>Apply         TIG/GTAW in         welding             <ul></ul></li></ul>
7. Assessment Criteria	The integrated outcome requirement of this unit of competency is:
	(i) Capable to complete basic TIG/GTAW tasks without causing obvious surface weld defects; and
0.7	(ii) Capable to perform TIG/GTAW tasks safely.
8. Remarks	This unit of competency is applicable to general electrical and mechanical welding practitioners.