1. Title	Basic oxy-acetylene welding(OAW) / oxyfuel and arc cutting(OAC)
2. Code	EMCUIN226A
3. Range	Perform OAW / OAC tasks for electrical and mechanical works 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 OAW / OAC OAW / OAC Operating OAW / OAC equipment and accessories, including handling of gasesous cylinder, correctly and safely Wearing proper personal protective gear Protecting against fire and explosion Protecting against harmful arc ray effectively Protecting against harmful gases and poisonous fumes Following the legislations and safety guidelines on OAW / OAC Know about the preparations for OAW / OAC: Understand the general application and their limitations of OAW / OAC Understand functions of various OAW / OAC equipment, including high pressure gasesous cylinder, pressure regulator, flashback arrestor, welding torch and cutting torch , etc. Identify the requirements of welding materials for oxyacetylene welding and cutting such welding rods, welding flux, etc Perform quality inspection on weld profile 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

	 Methods and procedures for operating OAW / OAC OAC Select proper parameters for welding, such as gas flowrate and pressure, angle of welding and cutting torch, welding or cutting speed, etc. Perform following tasks: Perform linear surface buildup at flat position Perform two sides square edge butt weld at flat position Perform fillet weld at flat position and horizontal position Perform plate cutting at horizontal position and vertical position
	6.3 Professionalism in OAW / OAC tasks according to relevant safety guidelines and code of practice
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to complete basic OAW / OAC tasks without causing obvious surface weld defects; and (ii) Capable to perform OAW / OAC tasks safely.
8. Remarks	This unit of competency is applicable to general electrical and mechanical welding practitioners.