1. Title	Basic manual metal arc welding (MMAW)/shielded metal arc welding (SMAW)
2. Code	EMCUIN225A
3. Range	Perform basic MMAW/SMAW on typical carbon-steel metals at electrical and mechanical welding workshops or work sites.
4. Level	2
5. Credits	6
6. Competency	Performance Requirements
	 6.1 Code of practice and Understand relevant code of practice and safety regulations for MMAW/SMAW Wearing proper personal protective gear Protecting against electric shock Protecting against harmful arc ray effectively Protecting against harmful gases and poisonous fumes Know about the preparations for MMAW/SMAW, including: Understanding the general application and their limitations of MMAW/SMAW Understanding the types of MMAW/SMAW machines and their functions Knowing about the specifications, applications, uses and storage of common mild-steel electrodes (such as E6013) for MMAW/SMAW Knowing about the maintenance of MMAW/SMAW equipment
	 6.2 Methods and procedures for operating MMAW/SMAW Select proper parameters for welding, such as polarity, current, welding speed and angle of electrode Perform tasks including: Performing linear surface buildup at flat position Joining two or more work pieces together at flat position Performing fillet weld at flat position Performing fillet weld at flat position Maintenance of electric arc welding equipment Undertake maintenance of MMAW/SMAW equipment Use and store common instruments and welding materials
	6.3 Professionalism in MMAW/SMAW • Perform MMAW/SMAW tasks according to relevant safety guidelines and code of practice

7. Assessment	The integrated outcome requirement of this unit of competency is:
Criteria	 (i) Capable to complete basic MMAW/SMAW tasks without causing obvious surface weld defects; and
	(ii) Capable to perform MMAW/SMAW tasks safely.
8. Remarks	This unit of competency is applicable to general electrical and mechanical welding practitioners.