

1. Title	Understand commonly used basic electrical materials, electrical equipment and tools		
2. Code	EMELDE108A		
3. Range	Understand various kinds of basic electrical materials, the types and construction of cables, the characteristics of electrical equipment and tools, and their applications in various kinds of related electrical installations for general electrical work.		
4. Level	1		
5. Credit	3		
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <div> <div> 6.1 Understand general electrical materials, electrical equipment, cable structure and characteristics of electrical tools </div> <div> <ul style="list-style-type: none"> ◆ Understand the characteristics of general electrical materials including conduit, wire frame, trunking, various kinds of conductor, earthing rod, various kinds of protective devices, various kinds of connecting devices ◆ Understand the characteristics of general electrical equipment including rising mains, low voltage switchboards, transformers, current transformer, diesel generators, low voltage distribution boards, energy meters, pre-meter switches, etc. ◆ Understand the structure and materials for general PVC, XLPE, armoured and mineral-insulated cables including conductor, insulation, sheath, armour, etc. ◆ Understand the characteristics of general electrical tools including wire stripper, wire cutter, hose wrench, multi-meter, various kinds of screwdriver, clamping pliers, power drill, electric iron </div> </div> <div> <div> 6.2 Understand various kinds of general electrical materials and equipment, the construction of cables, and the applications of electrical tools </div> <div> <ul style="list-style-type: none"> ◆ Understand various kinds of general electrical materials and equipment, the construction of cables, and the applications of electrical tools </div> </div>		
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to understand various kinds of general electrical materials and equipment, the construction of cables, and the applications of electrical tools.</p>		
8. Remarks			