1. Title	Use typical electrical meters
2. Code	EMCUDE101A
3. Range	With regard to electrical and mechanical engineering services, have basic understanding in electrical terms, units and calculations, and electrical components; and use typical electrical meters for general measurement.
4. Level	1
5. Credits	3
6. Competency	Performance Requirements
	<ul> <li>6.1 Basic electrical concepts</li> <li>◆ Understand basic electrical concepts, including:         <ul> <li>Stating briefly the names and uses of common electrical components from distribution board to all final circuits</li> <li>Distinguish and apply basic electrical terms such as electric current, electric voltage, electric resistance, electric energy and electric power, etc., and their basic units and calculations</li> <li>Understand the working principles of common meters, including:</li></ul></li></ul>
7. Assessment Criteria	<ul> <li>The integrated outcome requirements of this unit of competency are:</li> <li>(i) Capable to use multimeters to measure electric current, electric voltage and electric resistance of simple circuits according to the code of safety and operation, and make simple calculations of electricity; and</li> <li>(ii) Capable to use appropriate typical meters to measure electric energy and electric power of simple circuits according to the code of safety and operation.</li> </ul>
8. Remarks	This unit of competency is applicable to new entrants of electrical and mechanical engineering services.