

1. Title	Apply basic power distribution materials and measuring tools for plumbing
2. Code	EMPDDE105A
3. Range	Provide suitable power distribution materials to personnel engaged in power distribution design and installation for plumbing.
4. Level	1
5. Credits	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Know about electrical materials and measuring tools for power distribution of plumbing installation</p> <ul style="list-style-type: none"> <li>◆ Know about general electrical tools for plumbing, such as wire stripper, wire stripping knife, screwdriver (flat head and cross head), crimping tool, electric drill, etc.</li> <li>◆ Know about the electrical materials and their range of application in plumbing, such as: <ul style="list-style-type: none"> <li>• PVC, XLPE, armoured and mineral-insulated cable</li> <li>• Conduit, cable tray and trunking</li> <li>• Overcurrent protection devices such as fuse, circuit breaker, etc.</li> <li>• Busbar trunking</li> </ul> </li> <li>◆ Know about the principles of multimeters and their applications in measuring electric current, electric resistance and electric voltage</li> </ul> <p>6.2 Provide suitable electrical materials and measuring tools for power distribution</p> <ul style="list-style-type: none"> <li>◆ Provide suitable power distribution materials to personnel engaged in electrical design and installation for plumbing</li> <li>◆ Provide suitable electrical meters to personnel engaged in electrical design and installation for plumbing</li> </ul> <p>6.3 Professionalism in selecting basic electrical materials for power distribution</p> <ul style="list-style-type: none"> <li>◆ Provide suitable power distribution materials and meters for electrical design and installation for plumbing according to legal requirements and the code of safety</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to use electrical materials and meters for power distribution of plumbing installation correctly; and</p> <p>(ii) Capable to suitable materials to plumbing electrical engineering personnel.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of electricity. This unit of competency does not require the person to have real competency in designing and installing electrical installations.