

1. Title	Perform the operation, repair and maintenance for simple low voltage power systems and associated installations
2. Code	EMELOR207A
3. Range	Applicable to the operation, fault repair and maintenance of low voltage power systems directly fed by low voltage underground distribution cables. Perform maintenance for simple low voltage power systems and associated installations according to maintenance plans, and carry out general fault repair and electrical equipment operation.
4. Level	2
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand the process of operation and basic repair and maintenance concepts for simple low voltage power systems and associated installations directly fed by low voltage underground distribution cables</p> <ul style="list-style-type: none"> <li>◆ Understand the procedures and method of operating, repairing and maintaining simple low voltage power systems and associated installations directly fed by low voltage underground distribution cables according to codes of repair and maintenance as well as relevant circuit diagrams, including cleaning, operating, arranging, examining, testing, repairing, replacing parts and completing records of them</li> <li>◆ Understand the meanings of symbols and tabulated data and circuit logic of various types of power supply schematic single-line diagrams and control circuit diagrams for operation</li> <li>◆ Understand materials used for general electrical installations, such as the specifications and using methods of cables, conduits, trunking, protective devices, circuit breaker, contactor, rising mains</li> <li>◆ Understand the daily records of operation log</li> </ul> <p>6.2 Perform regular maintenance and testing, trouble shoot and make rectifications</p> <ul style="list-style-type: none"> <li>◆ Perform regular maintenance for simple low voltage power systems and associated installations according to established plans and procedures, including: including cleaning, assembling and disassembling, arranging, replacing accessories, examining, testing, calibrating and completing records of them</li> <li>◆ Use simple instruments to detect the faults of low voltage power systems and associated installations of simple low voltage electrical installations by means of inspection, measuring and tracking according to circuit diagrams/manuals</li> <li>◆ Troubleshoot and find out the cause of fault to prevent same faults happening again</li> </ul>

	<p>6.3 Professionalism in operating, repairing and maintaining low voltage distribution equipment</p> <p>◆ Follow the regulations and safety guidelines for the industry to ensure that low voltage distribution equipment can be used safely</p>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to perform regular inspection and maintenance for simple low voltage power systems and associated installations according to established maintenance plans; and</p> <p>(ii) Capable to troubleshoot default installations.</p>
8. Remarks	