

1. Title	Use various fault finding methods for electrical installations
2. Code	EMELOR504A
3. Range	Applicable to daily operation, repair and maintenance of electrical installations. Master the operation and fault conditions of various kinds of power generation, transmission and distribution installations at worksites; lead and instruct staff of all levels to use various types of fault finding methods to solve the problems.
4. Level	5
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand the operation and fault conditions of power generation, transmission and distribution installations and equipment</p> <ul style="list-style-type: none"> ◆ Understand the operating principles and fault conditions such as generators and high voltage switch control circuit failure, mechanical faults in high voltage switches and overhead cables, short circuit, cable fault, air leak in SF6 insulated high voltage switch, etc. in various types of power generation, transmission and distribution network installations and equipment <p>6.2 Lead and instruct staff of all levels to use various types of appropriate methods to find faults</p> <ul style="list-style-type: none"> ◆ Lead and instruct staff of all levels to use various types of appropriate instruments such as multi-meter, insulation resistance tester, pressure tester, injection test instruments, active detector, gas tester, etc. to find faults ◆ Use various types of appropriate methods such as insulation resistance tester, continuity test, withstand test, injection test, etc. to find faults <p>6.3 Professionalism in repairing and maintaining power generation, transmission and distribution network equipment</p> <ul style="list-style-type: none"> ◆ Follow the regulations and safety guidelines for the industry to ensure that the repair and maintenance of power generation, transmission and distribution network equipment can be performed safely, and the power generation, transmission and distribution network equipment can be used safely
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to master the operation and fault conditions of various types of power generation, transmission and distribution network installations and equipment;</p> <p>(ii) Capable to use various types of appropriate instruments to find faults; and</p> <p>(iii) Capable to lead and instruct staff of all levels to use various types of appropriate methods to find faults.</p>
8. Remarks	