

1. Title	Master the design performance requirements of power generation, transmission and distribution network and perform project management
2. Code	EMELPM507A
3. Range	Applicable to project management of electrical works. Analyze, organize and assess the design performance requirements and data for different electricity systems in the engineering project; and perform project management for the design, installation, testing and commissioning of various levels of electricity generation, transmission and distribution network.
4. Level	5
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand electricity generation, transmission and distribution network design performance requirements</p> <ul style="list-style-type: none"> <li>◆ Understand the design performance requirements and data for various types of electricity generation, transmission and distribution network of the engineering project, including: equipment's nominal data (size dimensions, electric current, voltage, frequency, power factor, etc. ), conductor resistance, conductor insulation resistance, cylinder pressure, SF6 gas purity, full load stability and temperature rise, starting current, voltage leakage values, etc.</li> </ul> <p>6.2 Perform project management according to electricity generation, transmission and distribution network design performance requirements</p> <ul style="list-style-type: none"> <li>◆ Implement the design, installation, testing and commissioning of various levels of electricity generation, transmission and distribution network and perform project management according to electricity generation, transmission and distribution network performance design requirements or data in order to monitor and ensure that the design performance requirements for electricity generation, transmission and distribution systems are met</li> <li>◆ Ensure that the works of electricity generation, transmission and distribution network equipment meet the statutory and professional requirements so that the electricity systems can be used safely</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to master the design performance requirements for electricity generation, transmission and distribution network; and</p> <p>(ii) Capable to monitor and ensure that the design performance requirements for electricity generation, transmission and distribution systems are met.</p>
8. Remarks	