

1. Title	Master the performance requirements for power generation or transmission and distribution network to perform inspection, testing and commissioning
2. Code	EMELIT502A
3. Range	Applicable to inspection, testing and commissioning of power generation or transmission and distribution network equipment. Master the inspection, testing and commissioning techniques for various types of installations of power generation or various levels of transmission and distribution network, and analyze, re-organize and assess power system performance information to perform inspection, testing and commissioning.
4. Level	5
5. Credit	9
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Master generation or transmission and distribution system performance specification requirements and the operation of the Safety Rules (Electrical)</p> <ul style="list-style-type: none"> ◆ Master engineering performance requirements for generation or transmission and distribution network, including contract's general specifications, contract's particular specifications, relevant international standards, project schedules, details of work procedures, engineering quotation checklist, tender drawings, etc. ◆ Master the operation of the Safety Rules (Electrical) including operation, inspection, testing, commissioning, repair, etc. ◆ Master a series of operational performance requirements on operation, testing, repair, remote control and protection system, etc. of power generation installations and transmission and distribution network equipment <p>6.2 Implement inspection, testing and commissioning tasks for power generation or transmission and distribution network equipment</p> <ul style="list-style-type: none"> ◆ Follow the engineering specification requirements and the operation of the Safety Rules (Electrical) to implement transmission and distribution network inspection, testing and commissioning, including: <ul style="list-style-type: none"> • Selecting tools and instruments that meet the technical requirements for inspection, testing and commissioning of power facilities and devices • Considering the characteristics and constraints of the work site to use tools and instruments that meet the technical requirements for inspection, testing and commissioning • Using appropriate computer control system software and hardware control and protection circuit for inspection, testing and commissioning

	<ul style="list-style-type: none"> • Implementing the arrangement of inspection, testing and commissioning of power generation or transmission and distribution network equipment • Completing approved testing record documents and assessing test results ◆ Follow the performance requirements on operation, inspection, commissioning, testing, repair, remote control and protection, etc. to implement inspection, testing and commissioning of various levels of generation installations and transmission and distribution network equipment, including on-site and remote control operation, load current control, voltage regulation control, insulation resistance, high voltage capacity, dielectric strength, etc. ◆ Follow the regulations and safety guidelines for the industry to ensure that power network equipment inspection, testing and commissioning is implemented safely and the power generation or transmission and distribution network is safe to use <p>6.3 Professionalism in inspecting, testing and commissioning power generation or transmission and distribution network equipment</p>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to master the operation of the Safety Rules (Electrical) in order to inspect, test and commission power generation or transmission and distribution network equipment; and (ii) Capable to implement inspection, testing and commissioning tasks for the specified generation installations or transmission and distribution network installations according to different inspection, testing and commissioning techniques and the performance requirements on operation, repair and maintenance, etc. for various levels of generation installations or transmission and distribution network.
8. Remarks	