

1. Title	Master the performance requirements for power generation or transmission and distribution network to perform installation work
2. Code	EMELIN502A
3. Range	Applicable to installation of power generation or transmission and distribution network equipment. Master the installation techniques and system performance requirements for various types of different installations of power generation or various levels of transmission and distribution network to perform installation work.
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 including installation, operation, testing, repair, etc. of the Safety Rules (Electrical) ◆ 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 installation 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 installation, including: <ul style="list-style-type: none"> • Considering the characteristics and constraints of the work site to select power facilities and devices that meet the technical requirements such as assembly, operation, testing and repair, etc. • Considering the characteristics and constraints of the work site to select materials that meet the technical requirements, such as insulated tile bottles, stainless steel materials, overhead lines materials, etc. • Implementing the moving in and warehousing of materials • Consider the operational requirements for generation equipment or transmission and distribution network to select appropriate computer control system software and hardware control and protection circuit

	<ul style="list-style-type: none"> ◆ Follow the performance requirements on operation, testing, repair, remote control and protection, etc. to implement installation 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, stability, safety, synchronous speed control, transmission and distribution network operation monitoring, etc. ◆ Follow the regulations and safety guidelines for the industry to ensure that power network equipment installation is implemented safely and the power generation or transmission and distribution network is safe to use
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 install power generation or transmission and distribution network equipment; and (ii) Capable to implement installation tasks for the specified generation installations or transmission and distribution network installations according to different installation techniques for various levels of generation installations or transmission and distribution network, the performance requirements on operation, repair and maintenance, etc.
8. Remarks	