

1. Title	Install low voltage power systems fed by a single transformer
2. Code	EMELIN309A
3. Range	Install low voltage power systems directly fed by a single transformer and associated devices at switch rooms or similar locations according to the details of installation drawings of electrical installations.
4. Level	3
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Master the details of installation drawings and technical requirements for electrical installations ♦ Master and analyze the details of installation drawings and all technical requirements for low voltage electrical installations directly fed by a single transformer, and list out the required installation items and schedule for implementation</p> <p>6.2 Master the actual situation and constraints of the work site so as to implement the installation of simple low voltage electrical installations ♦ Inspect the actual situation and constraints of the worksite, and work out solutions accordingly ♦ Implement the installation of simple low voltage power systems directly fed by a single transformer, distribution circuit and associated devices including low voltage switchboard, bus slot, riser, wiring system, power equipment, drive system, protection and control system, power supply quality control system, earthing system, lightning protection system and lighting system</p> <p>6.3 Professionalism in installing low voltage distribution equipment ♦ 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 list out the required installation items and schedule for implementation;</p> <p>(ii) Capable to inspect the actual situation and constraints of the worksite and work out relevant solutions accordingly; and</p> <p>(iii) Capable to carry out the installation of low voltage electrical installations according to the details of the installation diagrams and technical requirements for the electrical installations.</p>
8. Remarks	