

1. Title	Select and use advanced and specialized skills to support engineering management for electrical installation projects
2. Code	EMELIN504A
3. Range	Applicable to electrical installation work. Select and use a series of advanced and specialized technical skills to support and enhance electrical equipment installation work efficiency and quality.
4. Level	5
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand advanced and specialized technical skills in electrical engineering</p> <ul style="list-style-type: none"> <li>◆ Understand a series of advanced and specialized technical skills in electrical engineering such as using various types of computer aided software to draw working diagrams, as-built drawings and electrical and mechanical facility integration plans to enhance work efficiency and quality, selecting innovative materials and tools, using advanced technologies in installation work for electrical projects, implementing management of delivery, storage and utilization of materials and equipment, etc.</li> <li>◆ Understand the uses and strengths and weaknesses of technologies commonly used</li> <li>◆ Understand specialized and environmental friendly installation technologies for electrical projects such as the application of renewable energy, small renewable energy generation systems and connection of power grids, etc.</li> </ul> <p>6.2 Select and use advanced and specialized skills to support electrical equipment installation work</p> <ul style="list-style-type: none"> <li>◆ Analyze, re-organize and assess interlocking relationship of installation procedures for every equipment in various types of engineering projects, make suitable judgement and use advanced and specialized skills to formulate installation plans, shop drawings, improvements, etc.</li> <li>◆ Select and use advanced and specialized skills to support established practices in installation for electrical projects including using various types of computer aided software to draw working diagrams, as-built drawings and electrical and mechanical facility integration plans to enhance work efficiency and quality, selecting innovative materials and tools, using advanced technologies in installation work for electrical projects, implementing management of delivery, storage and utilization of materials and equipment, etc. to enhance work efficiency and quality and implement installation planning and management tasks, etc.</li> </ul>

7. Assessment Criteria	The integrated outcome requirements of this unit of competency are:  (i) Capable to master uses, and strengths and weaknesses of general installation techniques; and  (ii) Capable to select and use advanced and specialized skills to enhance current electrical installation performance and quality.
8. Remarks	