

1. Title	Design neon installation systems
2. Code	EMELDE319A
3. Range	Applicable to designing neon installations. Master the arrangement and protection concept of electrical installations, techniques for various neon facilities and devices, various site constraints, etc. and design neon installation systems.
4. Level	3
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand local legal requirements on the design of neon installations</p> <ul style="list-style-type: none"> <li>◆ Follow local electricity regulations and Buildings Department's guidelines on the installation and repairs of advertising signs, and understand the legal requirements on the design of neon installations in different work site environments including external walls, indoor, roofs of buildings, places of entertainment, etc.</li> <li>◆ Understand the basic requirements of Code of Practice for the Electricity (Wiring) Regulations on the design of neon installations power supply systems</li> <li>◆ Understand neon installations the design concept of such as: site requirements, supporting structures, other supporting frames and repair ladder racks, etc. of neon installations</li> </ul> <p>6.2 Design power supply systems of neon installations</p> <ul style="list-style-type: none"> <li>◆ Design supporting structures for neon installations</li> <li>◆ Design power supply and protection systems of neon installations, such as overcurrent protectors and earthing arrangement, neon tube control and protection circuit arrangement, wiring arrangement for electrical installations, etc.</li> <li>◆ Draw various shop drawings of neon installations including: <ul style="list-style-type: none"> <li>• Neon tube control and protection circuits</li> <li>• Circuit diagrams of electrical installations</li> <li>• Electrical installation layout plans</li> <li>• Shop drawings of electrical installations</li> </ul> </li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to design supporting structures of neon installations;</p> <p>(ii) Capable to design power supply systems of neon installations; and</p> <p>(iii) Capable to draw various shop drawings of neon installations.</p>
8. Remarks	