

1. Title	Install high voltage power distribution or generation facilities
2. Code	EMELIN304A
3. Range	Applicable to the installation sites of high voltage power distribution or generation facilities. Analyze the actual situation and constraints of the worksite according to the shop drawings required in order to implement the setting of the installation and protection system for high voltage power distribution or generation facilities.
4. Level	3
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand the actual situation and constraints of the work site</p> <ul style="list-style-type: none"> <li>◆ Investigate the work site on purpose at different working stages to understand the actual situation of the work site</li> <li>◆ Understand the installation work of high voltage power distribution or generation facilities and master constraints and problems of the work site</li> </ul> <p>6.2 Install high voltage power distribution or generation facilities according to design shop drawing and set the protection system</p> <ul style="list-style-type: none"> <li>◆ Implement the configuration and installation of power supply installations according to design shop drawings. High voltage electrical facilities and devices include generators, transformers, SF6 insulated high voltage switches, control panel, overhead lines, cables, electric motors, earthing systems, lightning protection system, etc.</li> <li>◆ Set the protection system according to the protection scheme for high voltage power distribution or generation installations</li> <li>◆ Make improvements to the protection plan according to the basic protection concept and actual situation</li> </ul> <p>6.3 Professionalism in installing high voltage power distribution or generation installations</p> <ul style="list-style-type: none"> <li>◆ Follow the regulations and safety guidelines for the industry to ensure that high voltage distribution or generation power supply installations can be used safely</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to analyze the work site situation and point out the constraints and work site problems for the installation of high voltage power distribution or generation facilities;</p> <p>(ii) Capable to implement the configuration and installation of high voltage power distribution or generation facilities according to the design shop drawing; and</p> <p>(iii) Capable to set the protection system according to the protection scheme for specified high voltage distribution or generation power installations, and make improvements to the protection scheme according to the basic protection concept and actual situation specified.</p>
8. Remarks	