

1. Title	Formulate the schematic diagrams of power generation or transmission and distribution network and the protection control circuit diagrams
2. Code	EMELDE504A
3. Range	Applicable to design work for power generation or transmission and distribution network equipment. Formulate various levels of transmission and distribution network schematic diagrams and protection control circuit diagrams.
4. Level	5
5. Credit	9
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand different drawing techniques and power network design requirements</p> <ul style="list-style-type: none"> ◆ Understand different drawing techniques and the specifications and system of international drawing standards ◆ Understand power network and protection control circuit design requirements <p>6.2 Formulate power generation or power network schematic diagrams and protection control circuit diagrams</p> <ul style="list-style-type: none"> ◆ Apply appropriate drawing techniques according to the specifications and system of international drawing standards to draw and modify power generation or transmission and distribution network schematic diagrams and protection control circuit diagrams ◆ Formulate schematic diagrams of power generation or transmission and distribution network system and protection and control system according to design requirements, including <ul style="list-style-type: none"> • Generation system planning • Transmission system network planning • Distribution system network planning • Generation equipment system protection and control circuit diagrams • Transmission and distribution network system equipment protection and control circuit diagrams <p>6.3 Professionalism in formulating the schematic diagrams of power network, protection and control systems</p> <ul style="list-style-type: none"> ◆ Follow the regulations and safety guidelines for the industry to ensure that the formulated schematic diagrams of power network, protection and control systems are safe to use
7. Assessment Criteria	The integrated outcome requirement of this unit of competency is: (i) Capable to formulate the schematic diagrams of power generation or transmission and distribution network, protection and control systems.
8. Remarks	