

1. Title	Understand basic design concept in power generation, transmission and distribution systems		
2. Code	111486L2		
3. Range	Applicable to the design of power supply system, which involves understanding the structure, type, working principles and application of different equipment using in power generation, transmission and distribution systems.		
4. Level	2		
5. Credit	3		
6. Competency			<u>Performance Requirements</u>
	6.1	Understand the structure, type, working principles of different equipment using in electrical power supply system	◆ Understand the structure, types, working principles of various equipment using in electrical power supply system, including: ➤ Electrical power generation process: turbine, generator, emission control equipment, wind turbine, solar panel etc. ➤ Transmission and distribution facilities.
	6.2	Master basic design concept of electrical power system	◆ Master the basic of various design concept of electrical power system, ➤ Basic protection concept, ➤ Basic power system network configuration, ➤ Typical electrical installations in a building.
	6.3	Exhibit professionalism in working with electrical power supply system	◆ Follow the Code of Practice for the Electricity (Wiring) Regulations and relevant standards in working with electrical power supply system.
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to understand the structure, type, working principles and application of different equipment using in power generation, transmission and distribution systems. (ii) Capable to master basic design concept of electrical power system.		
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic electrical and mechanical knowledge.		