

1. Title	Understand the basic design concept of high voltage system		
2. Code	111488L2		
3. Range	Applicable to the design of high voltage system, which involves understanding the basic design concept of high voltage system.		
4. Level	2		
5. Credit	2		
6. Competency			<u>Performance Requirements</u>
	6.1	Know about the characteristics of high voltage system in generation, transmission and distribution	◆ Know about the characteristics of high voltage system, including: ➤ Definition of voltage level. ➤ Commonly used high-voltage systems in Hong Kong. ➤ Rationales of using high voltage system in power generation, transmission and distribution.
	6.2	Master basic design concept of high voltage system in generation, transmission and distribution	◆ Master the basic design concept of high voltage system, ➤ Basic principle of substation grounding system, e.g. soil resistivity, outline of earth grid, etc. ➤ Basic concept of through-fault and unit protection.
	6.3	Exhibit professionalism in working with commonly used high voltage system	◆ Follow the Code of Practice for the Electricity (Wiring) Regulations and relevant standards in working with commonly used high voltage system.
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to understand the characteristic and basic design concept of high voltage 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.		