1. Title	Design the lighting system in electrical installation		
2. Code	111493L3		
3. Range	Applicable to design and installation of electrical work, which involves implementing the lighting system design in electrical installation.		
4. Level	3		
5. Credit	2		
6. Competency			Performance Requirements
	6.1	Possess the knowledge of lighting system design and calculation	♦ Understand the characteristics of lighting system, including: ➢ luminous intensity, luminous Flux, illuminance, ➢ applications and characteristics of different types of lamps such as discharge lamp and LED lamp; use of different types of luminaires such as general lighting luminaire; high-bay luminaire; floodlighting etc., ➢ reflection types of luminaires.
	6.2	Master the design concept and technical calculation of lighting system design	♦ Master the design concept and technical calculation of lighting system in application of below: ➢ Assess lighting system performance using lumen method – coefficient of utilization, maintenance factor, spacing-height ratio, quantity of luminaires etc. ➢ lighting circuit wiring design and calculation.
	6.3	Exhibit professionalism in designing lighting system of electrical installation	♦ Follow the Code of Practice for the Electricity (Wiring) Regulations and relevant standards in designing lighting system of electrical installation.
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to understand characteristics of lighting system. (ii) Capable to master the design concept and technical calculation of lighting system design in electrical installation		

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.