

1. Title	Design the lightning protection system		
2. Code	111494L3		
3. Range	Applicable to design and installation, which involves implementing the lightning protection system design.		
4. Level	3		
5. Credit	2		
6. Competency			<u>Performance Requirements</u>
	6.1	Possess the knowledge of structure, type, working principles and application of different types of lightning protection system equipment	◆ Understand the structure, type, working principles and application of different types of lightning protection system equipment, including: ➤ Air termination network, ➤ Down conductor, ➤ Earth termination network
	6.2	Master the design concept of lightning protection system design	◆ Master the design concept of lightning protection system in application, ➤ needs to have lightning protection ➤ principles of lightning protection and installation of lightning protection system in compliance with BS EN 62305 lightning protection system ➤ introduction to other lightning protection methods ➤ precautions to be taken against lightning in open area and under different environments
	6.3	Exhibit professionalism in designing lightning protection system	◆ Follow the relevant International Standards, practice notes published by Buildings Department and make reference to the general technical guideline under Code of Practice for the Electricity (Wiring) Regulations in designing lightning protection 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 types of lightning protection system equipment. (ii) Capable to master the design concept of lightning protection system design.		

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.
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