1. Title	Design the energy efficiency application and specific installation for electrical system		
2. Code	111491L3		
3. Range	Applicable to design and installation of electrical work, which involves implementing the energy efficiency and specific installations of electrical system.		
4. Level	3		
5. Credit	4		
6. Competency			Performance Requirements
	6.1	Possess the knowledge of energy efficiency application in electrical system design	♦ Understand the enacted of Building Energy Code and its requirement in electrical installation. ♦ Understand the application of below Energy Efficiency equipment: ➢ power factor correction equipment, ➢ energy efficient equipment, e.g. speed drives, lighting, air conditioning, appliances and water heater etc.
	6.2	Master the design concept of specific installations in electrical system	♦ Master the design concept of specific installations for electrical system in accordance with the prevailing Code of Practice for the Electricity (Wiring) Regulations: ➢ outdoor installation and temporary installation ➢ domestic installation and appliance ➢ wet, extreme temperature, flammable or explosive situations installations ➢ busbar trunking and rising mains installations ➢ supply to transformer, electric motor and welding sets ➢ equipment with high earth leakage currents
	6.3	Exhibit professionalism in designing specific	♦ Follow the Code of Practice for the Electricity (Wiring) Regulations and

		installations of electrical system	relevant standards in designing specific installations of electrical system.
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to understand the knowledge of energy efficiency application in electrical system design. (ii) Capable to master the design concept of specific installations in electrical 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.		