

1. Title	Perform functional control circuit installation		
2. Code	111485L3		
3. Range	Apply the techniques of functional control circuit wiring and Programmable Logic Controller for electrical and mechanical works.		
4. Level	3		
5. Credit	6		
6. Competency			<u>Performance Requirements</u>
	6.1	Understand the working principles of Programmable Logic Controller	◆ Understand the working principles of Programmable Logic Controller: ➤ Input / Output components and their connections to Programmable Logic Control (PLC) ➤ basic programming language ➤ converting circuit from conventional circuit to PLC program
	6.2	Perform functional control circuit wiring installation tasks	◆ Perform control circuit wiring of specific electrical equipment according to instructions: ➤ Connect functional control circuits of: e.g. traffic light; washing machine; change-over; dumbwaiter etc. ◆ Perform control circuit wiring in application of Programmable Logic Controller: ➤ basic programming and functions application, ➤ advanced programming and various circuit application.
	6.3	Exhibit professionalism in installation of functional control circuits	◆ Follow the Code of Practice for the Electricity (Wiring) Regulations and relevant trade practices in installation of functional control circuits.
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to install wiring of functional control circuit for various electrical equipment and systems correctly and safely according to instructions. (ii) Capable to understand the working principles and apply Programmable Logic Controller in various electrical control circuit.		

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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