

1. Title	Install fire service power supply and control equipment	
2. Code	EMFSIN304A	
3. Range	Perform different levels of tasks of installing fire service power supply and control equipment at workshops or equipment installation points. This unit of competency does not include the competency of installing the electrical installations of fire detection and alarm systems.	
4. Level	3	
5. Credit	4	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of installing fire service power supply and control equipment</p> <ul style="list-style-type: none"> ◆ Understand the operating principles of various types of fire service power supply and control equipment such as: <ul style="list-style-type: none"> • AC/DC electrical power distribution system • Electrical control circuit and control panel • Electrical protection device • Fire-resistant cable (including copper-sheathed cable) ◆ Understand installation drawings of fire service power supply and control equipment ◆ Understand the installation requirements and specifications of such equipment <p>6.2 Methods and procedures of installing fire service power supply and control equipment</p> <ul style="list-style-type: none"> ◆ Master the installation procedures and methods for fire service power supply and control equipment, including the procedures of material checking, assembly, adjustment and testing ◆ Instruct subordinates to carry out installation work safely and of high quality ◆ Select and use suitable fire service power supply and control equipment components and materials ◆ Install and set distribution board, wire, conduit, switchgear, control panel, pump motor starter, relay and indicator light, etc. independently at suitable locations ◆ Select, use and maintain basic workshop equipment and tools for class 2 fire service electrical installation contractors, e.g. threading tools (for conduit), electric drill, bench fitting tools and multi-meter ◆ Use testing tools to conduct functional tests independently after installation <p>6.3 Professionalism in installing fire service power supply and control equipment</p> <ul style="list-style-type: none"> ◆ Perform different levels of tasks of installing fire service power supply and control equipment according to installation instructions ◆ Undertake installation work of fire service power supply and control equipment according to safety guidelines required by the law and codes of practice 	

7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to complete different levels of installation tasks systematically and efficiently for fire service power supply and control equipment; and (ii) Capable to undertake installation work of fire service power supply and control equipment according to codes of practice and safety guidelines required by the law.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses elementary knowledge and skill in installing fire service power supply and control equipment.