

1. Title	Maintain and repair fire service power supply and control equipment
2. Code	EMFSOR304A
3. Range	Carry out maintenance and repair of fire service power supply and control equipment independently at repair workshops or work sites according to repair instructions and standards. This unit of competency does not include the competency of repairing 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 Construction and operating principles of fire service power supply and control equipment</p> <ul style="list-style-type: none"> ◆ Understand the functions and operating principles of various types of fire service power supply and control equipment, including: <ul style="list-style-type: none"> • AC/DC power distribution system • Electrical control circuit and control panel • Electrical protection device • Fire-resistant cable (including copper-sheathed cable) <p>6.2 Repair and maintenance methods and procedures of fire service power supply and control equipment</p> <ul style="list-style-type: none"> ◆ Master the procedures and methods of maintenance and repair of various types of fire service power supply and control equipment, including the procedures of inspection, repair and testing ◆ Examine the damage condition of accessories independently, such as distribution board, wire, conduit, switchgear, control panel, pump motor starter, relay and indicator light, according to repair instructions ◆ Diagnose the problems and repair or replace damaged accessories ◆ Select, use and maintain general workshop equipment and tools for class 2 fire service electrical installation contractors ◆ Use appropriate testing equipment (e.g. multi-meter, insulation tester, etc.) to conduct functional tests independently after repair ◆ Instruct subordinates to carry out maintenance and repair work properly <p>6.3 Professionalism in maintenance and repair of fire service power supply and control equipment</p> <ul style="list-style-type: none"> ◆ Carry out maintenance and repair of fire service power supply and control equipment independently according to repair instructions and specifications ◆ Undertake maintenance and repair work of fire service power supply and control equipment according to safety guidelines required by the law and codes of practice

<p>7. Assessment Criteria</p>	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to carry out maintenance and repair of fire service power supply and control equipment independently; and (ii) Capable to undertake maintenance and repair work of fire service power supply and control equipment according to codes of practice and legal requirements on safety.
<p>8. Remarks</p>	<p>The credit value of this unit of competency is set on the presumption that the person already possesses elementary knowledge and skill in repairing and maintaining fire service power supply and control equipment.</p>