

1. Title	Maintain and repair fire detection and alarm systems and equipment
2. Code	EMFSOR303A
3. Range	Carry out maintenance and repair of fire detection and alarm systems and equipment independently at repair workshops or work sites according to repair instructions and standards.
4. Level	3
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Construction and operating principles of fire detection and alarm systems and equipment</p> <ul style="list-style-type: none"> ◆ Understand the functions and operating principles of various types of fire detection and alarm systems and equipment, including: <ul style="list-style-type: none"> • Conventional (electronic) type • Addressable (intelligent) type <p>6.2 Repair and maintenance methods and procedures of fire detection and alarm systems and equipment</p> <ul style="list-style-type: none"> ◆ Master the procedures and methods of maintenance and repair of various types of fire detection and alarm systems and equipment, including the procedures of inspection, repair and testing ◆ Examine the damage condition of accessories independently, such as heat, smoke and flame detectors, audio/visual advisory systems, annunciation panels, batteries and chargers, according to repair instructions ◆ Diagnose the problems and repair or replace damaged accessories ◆ Select, use and maintain general workshop equipment and tools for class 1 fire service installation contractors ◆ Use appropriate testing equipment 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 detection and alarm systems and equipment</p> <ul style="list-style-type: none"> ◆ Carry out maintenance and repair of fire detection and alarm systems and equipment independently according to repair instructions and specifications ◆ Undertake maintenance and repair work of fire detection and alarm systems and equipment according to safety guidelines required by the law and codes of practice
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to carry out maintenance and repair of fire detection and alarm systems and equipment independently; and</p> <p>(ii) Capable to undertake maintenance and repair work of fire detection and alarm systems and equipment according to codes of practice and legal requirements on safety.</p>

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 repairing and maintaining fire detection and alarm systems and equipment.
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