

1. Title	Maintain and repair specialized fire systems and equipment
2. Code	EMFSOR402A
3. Range	Carry out maintenance and repair of specialized fire systems and equipment at repair workshops or work sites in all kinds of predictable and structured contexts according to repair instructions and specifications.
4. Level	4
5. Credit	4
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Construction and operating principles of specialized fire systems and equipment</p> <ul style="list-style-type: none"> ◆ Understand the construction, functions and operating principles of various types of specialized fire systems and equipment, including: <ul style="list-style-type: none"> • Fixed foam system • Dry chemical system • Water mist system • Improvised sprinkler system <p>6.2 Repair and maintenance methods and procedures of specialized fire systems and equipment</p> <ul style="list-style-type: none"> ◆ Master the procedures and methods of maintenance and repair of various types of specialized fire systems and equipment in all kinds of predictable and structured contexts, including the procedures of inspection, cleaning, installation, removal, replacement, repair and testing ◆ Examine the damage condition of accessories, such as pipes, pumps, nozzles, containers, starters, switches and foam generators, according to repair instructions ◆ Diagnose the problems and repair or replace damaged accessories ◆ Use effectively general workshop equipment and tools for class 2 fire service mechanical installation contractors ◆ Use appropriate testing equipment to conduct functional tests independently after repair <p>6.3 Professionalism in maintenance and repair of specialized fire systems and equipment</p> <ul style="list-style-type: none"> ◆ Carry out maintenance and repair of specialized fire systems and equipment according to repair instructions and specifications ◆ Undertake maintenance and repair work of specialized fire 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 specialized fire systems and equipment effectively in all kinds of predictable and structured contexts; and</p> <p>(ii) Capable to undertake maintenance and repair work of specialized fire systems and equipment according to codes of practice and safety guidelines required by the law.</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 general fire service mechanical installations.
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