

1. Title	Install specialized fire systems and equipment	
2. Code	EMFSIN402A	
3. Range	Perform different levels of tasks of installing specialized fire systems and equipment at workshops or equipment installation points in a range of varied and specific situations/environments.	
4. Level	4	
5. Credit	4	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of installing specialized fire systems and equipment</p> <ul style="list-style-type: none"> <li>◆ Understand the construction and operating principles of various types of specialized fire systems and equipment such as: <ul style="list-style-type: none"> <li>• Fixed foam system</li> <li>• Dry chemical system</li> <li>• Water mist system</li> <li>• Improvised sprinkler system</li> </ul> </li> <li>◆ Read and understand installation drawings of specialized fire systems and equipment</li> <li>◆ Understand the installation requirements and specifications of such equipment</li> </ul> <p>6.2 Methods and procedures of installing specialized fire systems and equipment</p> <ul style="list-style-type: none"> <li>◆ Master the installation procedures and methods for specialized fire systems and equipment, including the procedures of material checking, assembly, adjustment and testing</li> <li>◆ Select and use suitable specialized fire systems and equipment components and materials</li> <li>◆ Install and set fire pipes, pumps, nozzles, containers, starters, switches and foam generators, etc. at suitable locations</li> <li>◆ Use basic workshop equipment and tools for class 2 fire service mechanical installation contractors, e.g. threading machine, electric drill, bench fitting tools and welding machine</li> <li>◆ Use testing tools to conduct functional tests independently after installation</li> </ul> <p>6.3 Professionalism in installing specialized fire systems and equipment</p> <ul style="list-style-type: none"> <li>◆ Perform different levels of tasks of installing specialized fire systems and equipment according to installation instructions</li> <li>◆ Undertake installation work of specialized fire systems and equipment according to safety guidelines required by the law and codes of practice</li> </ul>	

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>(i) Capable to complete different levels of installation tasks effectively for specialized fire systems and equipment in a range of varied and specific situations/environments; and</li> <li>(ii) Capable to undertake installation work of specialized fire systems and equipment according to codes of practice and safety guidelines required by the law.</li> </ul>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses knowledge and skill in installing general fire service mechanical installations.</p>