

1. Title	Install non-water-based fire service mechanical equipment	
2. Code	EMFSIN302A	
3. Range	Perform different levels of tasks of installing non-water-based fire service mechanical equipment at workshops or equipment installation points.	
4. Level	3	
5. Credit	6	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of installing non-water-based fire service mechanical equipment</p> <ul style="list-style-type: none"> <li>◆ Understand the operating principles of various types of non-water-based fire service mechanical installations such as: <ul style="list-style-type: none"> <li>• Carbon dioxide system</li> <li>• FM200 system</li> <li>• NAFSIII system</li> <li>• Other similar extinguishing agent systems</li> </ul> </li> <li>◆ Understand installation drawings of non-water-based fire service mechanical installations</li> <li>◆ Understand the installation requirements and specifications of such equipment</li> </ul> <p>6.2 Methods and procedures of installing non-water-based fire service mechanical equipment</p> <ul style="list-style-type: none"> <li>◆ Master the installation procedures and methods for non-water-based fire service mechanical installations, including the procedures of material checking, assembly, adjustment and testing</li> <li>◆ Instruct subordinates to carry out installation work safely and of high quality</li> <li>◆ Select and use suitable non-water-based fire service mechanical equipment components and materials</li> <li>◆ Install and set fire pipes, gas cylinders, switches, exhaust valves, detectors and nozzles, etc. independently at suitable locations</li> <li>◆ Select, use and maintain 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 non-water-based fire service mechanical equipment</p> <ul style="list-style-type: none"> <li>◆ Perform different levels of tasks of installing non-water-based fire service mechanical equipment according to installation instructions</li> <li>◆ Undertake installation work of non-water-based fire service mechanical installations according to safety guidelines required by the law and codes of practice</li> </ul>	

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 non-water-based fire service mechanical equipment; and  (ii) Capable to undertake installation work of non-water-based fire service mechanical installations 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 non-water-based fire service mechanical installations.