1. Title	Install water-based fire service mechanical equipment
2. Code	EMFSIN301A
3. Range	Perform different levels of tasks of installing water-based fire service mechanical equipment at workshops or equipment installation points.
4. Level	3
5. Credit	6
6. Competency	Performance Requirements
	 Knowledge of installing waterbased fire service mechanical equipment Understand the operating principles of various types of waterbased fire service mechanical installations such as: sprinkler system Fire hydrant/hose reel system Deluge system Water spray system Understand installation drawings of water-based fire service mechanical installations Understand the installation requirements and specifications of such equipment
	 Methods and procedures of installing water-based fire service mechanical installing water-based fire service mechanical equipment Select and use suitable water-based fire service mechanical equipment subordinates to carry out installation work safely and of high quality Select and use suitable water-based fire service mechanical equipment components and materials Install and set fire pipes, pumps, switches, hose reels, fire hydrants, fire service inlets, etc. independently at suitable locations 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 Use testing tools to conduct functional tests independently after installation
	6.3 Professionalism in installing water-based fire service mechanical equipment according to installation instructions based fire service mechanical equipment according to installation instructions ◆ Undertake installation work of water-based fire service mechanical installations according to safety guidelines required by the law and codes of practice

7. Assessment	The integrated outcome requirements of this unit of competency are:
Criteria	(i) Capable to complete different levels of installation tasks systematically and efficiently for water-based fire service mechanical equipment; and
	(ii) Capable to undertake installation work of 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 water-based fire service mechanical installations.