1. Title	Install mechanical equipment of water supply systems
2. Code	EMPDIN303A
3. Range	Perform different levels of tasks of installing mechanical equipment of water supply systems at workshops or equipment installation points.
4. Level	3
5. Credits	6
6. Competency	<u>Performance Requirements</u> 6.1 Knowledge of installing mechanical equipment of water supply systems ♦ Understand the construction and operating principles of various types of mechanical installations of water supply systems such as: • Direct and indirect water supply systems (including fresh water and flush water) • Pressurized water supply system • Variable speed water pump water supply system ♦ Read installation drawings of mechanical installations of water supply systems ♦ Understand the installation requirements and specifications of such equipment 6.2 Methods and procedures of installing mechanical equipment of water supply systems ♦ Know the installation procedures and methods for mechanical installations of water supply systems, including the procedures of material checking, assembly, adjustment and testing ♦ Select and use suitable accessories and materials for the mechanical equipment of water supply systems ♦ Install and set various kinds of plumbing systems and water pumps at suitable locations according to installation instructions ♦ Use workshop and worksite equipment and tools safely and skilfully, e.g. threading machine, electric drill, bench fitting tools and welding machine 6.3 Professionalism in installing mechanical equipment of water supply systems ♦ Perform tasks of installing mechanical equipment of water supply systems according to installation instructions ♦ Understand the safety guidelines required by the law and codes of practice in undertaking installation work of mechanical installations of water supply systems
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to complete installation of mechanical equipment of water supply systems systematically and efficiently; and (ii) Capable to undertake installation work of mechanical installations of water supply systems safely according to the code of practice of the trade.
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 mechanical installations of water supply systems.