

1. Title	Maintain and repair mechanical installations of water supply systems
2. Code	EMPDOR302A
3. Range	Carry out repair and maintenance of mechanical installations of water supply systems at repair workshops or work sites according to repair instructions and standards.
4. Level	3
5. Credits	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Construction and operating principles of mechanical installations of water supply systems</p> <ul style="list-style-type: none"> ◆ Understand the construction, functions and operating principles of various types of mechanical installations of general water supply systems, including: <ul style="list-style-type: none"> • Direct and indirect fresh water system • Indirect flush water system <p>6.2 Methods and procedures of repairing and maintaining mechanical installations of water supply systems</p> <ul style="list-style-type: none"> ◆ Master the procedures and methods of repairing and maintaining mechanical installations of water supply systems and installations, including the procedures of inspection, cleaning, installation, removal, replacement, repair and testing ◆ Examine the damage condition of accessories such as water tanks, pipes and pumps according to repair instructions ◆ Diagnose the problems and repair or replace damaged accessories ◆ Use general pipe fitting tools such as threading machine and pipe-bending machine ◆ Use general workshop equipment and tools effectively ◆ Use appropriate testing equipment to conduct functional tests after repair <p>6.3 Professionalism in repairing and maintaining mechanical installations of water supply systems</p> <ul style="list-style-type: none"> ◆ Carry out maintenance and repair of mechanical installations of water supply systems independently according to installation instructions and standards ◆ Understand the safety guidelines as required by the law and the code of practice in undertaking repair and maintenance of mechanical installations of water supply systems
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to perform the tasks of repairing and maintaining mechanical installations of water supply systems efficiently and correctly.</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 mechanical installations of water supply systems.