

1. Title	Maintain and repair mechanical installations of central hot water systems
2. Code	EMPDOR404A
3. Range	Carry out maintenance and repair of mechanical installations of central hot water systems at repair workshops or work sites according to repair instructions and specifications.
4. Level	4
5. Credits	5
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Construction and operating principles of mechanical installations of central hot water systems</p> <ul style="list-style-type: none"> ◆ Understand the construction, functions and operating principles of various types of mechanical installations of central hot water systems <p>6.2 Methods and procedures of maintaining and repairing mechanical installations of central hot water systems</p> <ul style="list-style-type: none"> ◆ Master the procedures and methods of maintaining and repairing various types of central hot water systems and installations, including the procedures of inspection, cleaning, installation, removal, replacement, repair and testing ◆ Assess the damage condition of accessories such as water tanks and pipes ◆ 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 independently after repair <p>6.3 Professionalism in maintaining and repairing mechanical installations of central hot water systems</p> <ul style="list-style-type: none"> ◆ Carry out maintenance and repair of mechanical installations of central hot water systems independently according to repair instructions and specifications ◆ Understand the safety guidelines required by the law and codes of practice in maintaining and repairing mechanical installations of central hot water systems
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to maintain and repair various types of mechanical installations of central hot water 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 knowledge and skill in maintaining and repairing plumbing mechanical installations.