

1. Title	Install mechanical equipment of central hot water systems									
2. Code	EMPDIN404A									
3. Range	Perform tasks of installing mechanical equipment of central hot water systems for plumbing projects according to drawings.									
4. Level	4									
5. Credits	4									
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <table border="0"> <tr> <td style="vertical-align: top;">6.1</td> <td style="vertical-align: top;">Knowledge of installing mechanical equipment of central hot water systems</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Understand the construction and operating principles of various types of mechanical equipment of central hot water systems</li> <li>◆ Read installation drawings of mechanical equipment of central hot water systems</li> <li>◆ Understand the installation requirements and specifications of such equipment</li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Methods and procedures of installing mechanical equipment of central hot water systems</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Know the installation procedures and methods for mechanical equipment of central hot water systems, including the procedures of material checking, assembly, adjustment and testing</li> <li>◆ Select and use suitable accessories and materials for the mechanical equipment of central hot water systems</li> <li>◆ Install and set various kinds of pipes and parts like switching valves at suitable locations according to installation instructions</li> <li>◆ Use workshop and worksite equipment and tools safely and skilfully, e.g. threading machine, electric drill, bench fitting tools and welding machine</li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in installing mechanical equipment of central hot water systems</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Perform tasks of installing mechanical equipment of central hot water systems according to installation instructions</li> <li>◆ Understand the safety guidelines required by the law and code of practice in undertaking tasks of installing mechanical equipment of central hot water systems</li> </ul> </td> </tr> </table>	6.1	Knowledge of installing mechanical equipment of central hot water systems	<ul style="list-style-type: none"> <li>◆ Understand the construction and operating principles of various types of mechanical equipment of central hot water systems</li> <li>◆ Read installation drawings of mechanical equipment of central hot water systems</li> <li>◆ Understand the installation requirements and specifications of such equipment</li> </ul>	6.2	Methods and procedures of installing mechanical equipment of central hot water systems	<ul style="list-style-type: none"> <li>◆ Know the installation procedures and methods for mechanical equipment of central hot water systems, including the procedures of material checking, assembly, adjustment and testing</li> <li>◆ Select and use suitable accessories and materials for the mechanical equipment of central hot water systems</li> <li>◆ Install and set various kinds of pipes and parts like switching valves at suitable locations according to installation instructions</li> <li>◆ Use workshop and worksite equipment and tools safely and skilfully, e.g. threading machine, electric drill, bench fitting tools and welding machine</li> </ul>	6.3	Professionalism in installing mechanical equipment of central hot water systems	<ul style="list-style-type: none"> <li>◆ Perform tasks of installing mechanical equipment of central hot water systems according to installation instructions</li> <li>◆ Understand the safety guidelines required by the law and code of practice in undertaking tasks of installing mechanical equipment of central hot water systems</li> </ul>
6.1	Knowledge of installing mechanical equipment of central hot water systems	<ul style="list-style-type: none"> <li>◆ Understand the construction and operating principles of various types of mechanical equipment of central hot water systems</li> <li>◆ Read installation drawings of mechanical equipment of central hot water systems</li> <li>◆ Understand the installation requirements and specifications of such equipment</li> </ul>								
6.2	Methods and procedures of installing mechanical equipment of central hot water systems	<ul style="list-style-type: none"> <li>◆ Know the installation procedures and methods for mechanical equipment of central hot water systems, including the procedures of material checking, assembly, adjustment and testing</li> <li>◆ Select and use suitable accessories and materials for the mechanical equipment of central hot water systems</li> <li>◆ Install and set various kinds of pipes and parts like switching valves at suitable locations according to installation instructions</li> <li>◆ Use workshop and worksite equipment and tools safely and skilfully, e.g. threading machine, electric drill, bench fitting tools and welding machine</li> </ul>								
6.3	Professionalism in installing mechanical equipment of central hot water systems	<ul style="list-style-type: none"> <li>◆ Perform tasks of installing mechanical equipment of central hot water systems according to installation instructions</li> <li>◆ Understand the safety guidelines required by the law and code of practice in undertaking tasks of installing mechanical equipment of central hot water systems</li> </ul>								
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to complete installation of mechanical equipment of central hot water systems systematically and efficiently; and</p> <p>(ii) Capable to undertake tasks of installing mechanical equipment of central hot water systems safely according to the code of practice of the trade.</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 installing mechanical equipment of water supply and drainage systems.									