

|                        |  |  |  |  |     |   |  |     |  |  |
|------------------------|--|--|--|--|-----|---|--|-----|--|--|
| 1. Title               | Install mechanical equipment of water heater systems   |  |  |  |     |   |  |     |  |  |
| 2. Code                | EMPDIN205A   |  |  |  |     |   |  |     |  |  |
| 3. Range               | Perform tasks of installing mechanical equipment of water heater systems at equipment installation points.   |  |  |  |     |   |  |     |  |  |
| 4. Level               | 2  |  |  |  |     |   |  |     |  |  |
| 5. Credits             | 2  |  |  |  |     |   |  |     |  |  |
| 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 water heater 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 installations of water heater systems</li> <li>◆ Read installation drawings of mechanical installations of water heater 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 water heater systems</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Know the installation procedures and methods for mechanical installations of water heater systems, including the procedures of material checking, assembly, adjustment and testing</li> <li>◆ Select and use suitable fittings and materials for the mechanical equipment of water heater systems</li> <li>◆ Install and set various types of water heater systems, pipes, switches, etc. at suitable locations according to installation instructions</li> <li>◆ Use workshop and worksite equipment and tools safely and proficiently, 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 water heater systems</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Perform tasks of installing mechanical equipment of water heater systems according to installation instructions</li> <li>◆ Understand the safety guidelines as required by the law and the code of practice in installing mechanical installations of water heater systems</li> </ul> </td> </tr> </table> | 6.1  | Knowledge of installing mechanical equipment of water heater systems | <ul style="list-style-type: none"> <li>◆ Understand the construction and operating principles of various types of mechanical installations of water heater systems</li> <li>◆ Read installation drawings of mechanical installations of water heater systems</li> <li>◆ Understand the installation requirements and specifications of such equipment</li> </ul> | 6.2 | Methods and procedures of installing mechanical equipment of water heater systems | <ul style="list-style-type: none"> <li>◆ Know the installation procedures and methods for mechanical installations of water heater systems, including the procedures of material checking, assembly, adjustment and testing</li> <li>◆ Select and use suitable fittings and materials for the mechanical equipment of water heater systems</li> <li>◆ Install and set various types of water heater systems, pipes, switches, etc. at suitable locations according to installation instructions</li> <li>◆ Use workshop and worksite equipment and tools safely and proficiently, e.g. threading machine, electric drill, bench fitting tools and welding machine</li> </ul> | 6.3 | Professionalism in installing mechanical equipment of water heater systems | <ul style="list-style-type: none"> <li>◆ Perform tasks of installing mechanical equipment of water heater systems according to installation instructions</li> <li>◆ Understand the safety guidelines as required by the law and the code of practice in installing mechanical installations of water heater systems</li> </ul> |
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| 7. Assessment Criteria | <p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to complete installation tasks systematically and efficiently for mechanical equipment of water heater systems; and</p> <p>(ii) Capable to install mechanical installations of water heater systems safely according to codes of practice.</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 installing mechanical installations of water supply systems.   |  |  |  |     |   |  |     |  |  |