

1. Title	Supervise the repair of industrial water treatment equipment											
2. Code	EMPERM408A											
3. Range	Supervise the repair of industrial water treatment equipment in general industrial plants, power plants or other places.											
4. Level	4											
5. Credits	6											
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;">Basic construction and repairing method of industrial water treatment equipment</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Know about the basic construction and repairing principle of industrial water treatment equipment</li> <li>◆ Know about the pre-treatment and replacement method of water purification systems, including:               <ul style="list-style-type: none"> <li>• Working principles and characteristics of adjustment of valves</li> <li>• Different types of reverse osmosis membrane filter cartridge</li> <li>• Different types of filter bag and cartridge</li> <li>• Types and properties of filter materials of filter cylinder</li> <li>• Method of ion resin regeneration</li> </ul> </li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Supervise the repair of industrial water treatment equipment</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Supervise and coordinate the repair of water treatment equipment, including:               <ul style="list-style-type: none"> <li>• Replace filter materials, filter bag and cartridge</li> <li>• Connect pipes for the system</li> <li>• Identify faults in the system</li> <li>• Ion resin regeneration</li> </ul> </li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in supervising the repair of industrial water treatment equipment</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Follow the code of safety, technical memorandum, code of practice and manufacturer's practical guidelines to supervise the repair of industrial water treatment equipment</li> <li>◆ Know about the handling of chemicals and the use of personal protective equipment</li> </ul> </td> </tr> </table>			6.1	Basic construction and repairing method of industrial water treatment equipment	<ul style="list-style-type: none"> <li>◆ Know about the basic construction and repairing principle of industrial water treatment equipment</li> <li>◆ Know about the pre-treatment and replacement method of water purification systems, including:               <ul style="list-style-type: none"> <li>• Working principles and characteristics of adjustment of valves</li> <li>• Different types of reverse osmosis membrane filter cartridge</li> <li>• Different types of filter bag and cartridge</li> <li>• Types and properties of filter materials of filter cylinder</li> <li>• Method of ion resin regeneration</li> </ul> </li> </ul>	6.2	Supervise the repair of industrial water treatment equipment	<ul style="list-style-type: none"> <li>◆ Supervise and coordinate the repair of water treatment equipment, including:               <ul style="list-style-type: none"> <li>• Replace filter materials, filter bag and cartridge</li> <li>• Connect pipes for the system</li> <li>• Identify faults in the system</li> <li>• Ion resin regeneration</li> </ul> </li> </ul>	6.3	Professionalism in supervising the repair of industrial water treatment equipment	<ul style="list-style-type: none"> <li>◆ Follow the code of safety, technical memorandum, code of practice and manufacturer's practical guidelines to supervise the repair of industrial water treatment equipment</li> <li>◆ Know about the handling of chemicals and the use of personal protective equipment</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 supervise the repair of industrial water treatment equipment and replace the filter bag, filter cartridge or filter materials, and the procedures for ion resin regeneration; and</p> <p>(ii) Capable to compile records and reports, and clearly explain the execution method.</p>											
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses general mechanical and chemical environmental basics and be familiar with the repair of industrial water treatment equipment.											