

1. Title	Perform basic repair and maintenance of reciprocating chiller plants
2. Code	EMACOR211A
3. Range	Repair and maintain reciprocating chiller plants at servicing stations or machine rooms under a certain degree of instruction.
4. Level	2
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Construction and working principles of reciprocating chiller plants</p> <ul style="list-style-type: none"> <li>◆ Understand the construction, working principles and characteristics of reciprocating compressor</li> <li>◆ Understand the construction, working principles and applications of reciprocating chiller plants</li> </ul> <p>6.2 Basic methods and procedures of repairing and maintaining reciprocating chiller plants</p> <ul style="list-style-type: none"> <li>◆ Check if the reciprocating chiller plant functions properly</li> <li>◆ Clean the condenser and evaporator</li> <li>◆ Disassemble the reciprocating compressor for maintenance and repair and replace afterwards</li> <li>◆ Identify the simple faults of the reciprocating chiller plant and repair them according to its operating condition and operation parameters</li> </ul> <p>6.3 Professionalism in basic repair and maintenance of reciprocating chiller plants</p> <ul style="list-style-type: none"> <li>◆ Follow the instructions to perform basic repair and maintenance of reciprocating chiller plants</li> <li>◆ Understand the safety guidelines as required by the law and the code of practice to undertake the basic repair and maintenance of reciprocating chiller plants</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to handle and fix simple faults of reciprocating chiller plants; and</p> <p>(ii) Capable to follow the code of practice to undertake the basic repair and maintenance of reciprocating chiller plants.</p>
8. Remarks	This unit of competency is applicable to practitioners engaged in general repair and maintenance of reciprocating chiller plants.