

1. Title	Supervise air-conditioning and refrigeration system operation, repair and maintenance
2. Code	EMACOR402A
3. Range	Apply specialized knowledge and skills to supervise air-conditioning and refrigeration system operation, repair and maintenance at locations with air-conditioning and refrigeration systems or their machine rooms.
4. Level	4
5. Credit	12
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of supervising air-conditioning and refrigeration system operation, repair and maintenance</p> <ul style="list-style-type: none"> <li>◆ Understand the details and requirements for managing air-conditioning and refrigeration equipment operation, repair and maintenance</li> <li>◆ Understand the technical regulations and procedures for air-conditioning and refrigeration equipment operation, repair and maintenance</li> </ul> <p>6.2 Methods and procedures of supervising air-conditioning and refrigeration system operation, repair and maintenance</p> <ul style="list-style-type: none"> <li>◆ Troubleshoot and repair unusual faults in air-conditioning and refrigeration systems, including: <ul style="list-style-type: none"> <li>• Analyze the operating condition and operating parameter data of the air-conditioning and refrigeration system to find out the cause of the unusual fault in the air-conditioning and refrigeration system</li> <li>• Repair the fault after knowing the cause</li> </ul> </li> <li>◆ Supervise staff to carry out operation, repair and maintenance, including: <ul style="list-style-type: none"> <li>• Arrange the staff to carry out operation, repair and maintenance according to operating requirements</li> <li>• Assess if the operation, repair and maintenance works done by the staff meet the specified requirements</li> <li>• Organize technical exchange for the staff</li> </ul> </li> <li>◆ Prepare documents for air-conditioning and refrigeration equipment operation, repair and maintenance, including: <ul style="list-style-type: none"> <li>• Preparing record forms for air-conditioning and refrigeration equipment operation, repair and maintenance work</li> <li>• Preparing schedules for air-conditioning and refrigeration equipment repair and maintenance</li> <li>• Preparing lists of equipment, parts and materials required for repair and maintenance</li> </ul> </li> </ul>

	<p>6.3 Professionalism in supervising air-conditioning and refrigeration system operation, repair and maintenance</p> <ul style="list-style-type: none"> <li>◆ Supervise the operation, repair and maintenance of air-conditioning and refrigeration systems according to the legal requirements and code of practice</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"> <li>(i) Capable to apply specialized knowledge and skills, and allocate and organize a wide range of resources, in order to complete the supervision of the operation, repair and maintenance of air-conditioning and refrigeration systems.</li> </ul>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses general knowledge of air-conditioning and refrigeration system operation, repair and maintenance.</p>