

1. Title	Operate the refrigeration equipment of the cold storage
2. Code	EMACOR306A
3. Range	Perform operation of the refrigeration equipment of the cold storage at cold storage and machine rooms.
4. Level	3
5. Credit	9
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of operating the refrigeration equipment of the cold storage</p> <ul style="list-style-type: none"> <li>◆ Understand the construction and working principles of typical refrigeration equipment of the cold storage, including: <ul style="list-style-type: none"> <li>• Compressor</li> <li>• Oil-ammonia separator</li> <li>• Condenser</li> <li>• Liquid receiver</li> <li>• Intercooler</li> <li>• Air separator</li> <li>• Brine water evaporator</li> </ul> </li> </ul> <p>6.2 Methods and procedures of operating the refrigeration equipment of the cold storage</p> <ul style="list-style-type: none"> <li>◆ Perform test run for the refrigeration equipment of the cold storage, including: <ul style="list-style-type: none"> <li>• Conducting inspection before test run the refrigeration equipment</li> <li>• Conducting test run for the refrigeration equipment</li> <li>• Calibrating the thermal expansion valve so that the cold storage can meet the needs of a wide range of cold stuffs</li> </ul> </li> <li>◆ Adjust the operating status of the refrigeration system of the cold storage, including: <ul style="list-style-type: none"> <li>• Adjusting the cooling capacity of the cold storage</li> <li>• Adjusting the evaporation temperature</li> <li>• Adjusting the condensation temperature</li> <li>• Adjusting the suction gas temperature</li> <li>• Adjusting the discharge gas temperature</li> </ul> </li> <li>◆ Operate the refrigeration equipment of the cold storage, including: <ul style="list-style-type: none"> <li>• Conducting inspection before restarting the refrigeration equipment</li> <li>• Starting the compressor</li> <li>• Defrosting the evaporator</li> <li>• Making necessary preparations before shutting down the refrigeration equipment for a long period of time</li> </ul> </li> </ul>

	<p>6.3 Professionalism in operating the refrigeration equipment of the cold storage</p> <ul style="list-style-type: none"> <li>◆ Follow the instructions of the operation manual to operate the refrigeration equipment of the cold storage independently</li> <li>◆ Understand the safety guidelines as required by the law and the code of practice to undertake the operation of the refrigeration equipment of the cold storage</li> </ul>
<p>7. Assessment Criteria</p>	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>(i) Capable to operate the refrigeration equipment of the cold storage systematically and efficiently; and</li> <li>(ii) Capable to follow the instructions of the operation manual safely to undertake the operation of the refrigeration equipment of the cold storage.</li> </ul>
<p>8. Remarks</p>	<p>The credit value of this unit of competency is set on the presumption that the person already possesses elementary knowledge of the refrigeration equipment of the cold storage.</p>