

1. Title	Wire up pressure control and pump down control circuits of refrigeration system
2. Code	EMACIN211A
3. Range	Wire up pressure control and pump down control circuits of refrigeration system at installation or servicing stations under a certain degree of instruction.
4. Level	2
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Working principles of pressure control and pump down control circuits of refrigeration system</p> <ul style="list-style-type: none"> <li>◆ Understand the functions and working principles of low-pressure control switches, high pressure control switches and dual pressure control switches</li> <li>◆ Understand the functions and working principles of oil pressure safety control switches</li> <li>◆ Understand the working principles of pressure control circuit of refrigeration system</li> <li>◆ Understand the working principles of pump down control circuit of refrigeration system</li> </ul> <p>6.2 Methods and procedures of wiring up pressure control and pump down control circuits of refrigeration system</p> <ul style="list-style-type: none"> <li>◆ Wire up the low pressure control switch and high pressure control switch to the refrigeration system</li> <li>◆ Wire up the oil pressure safety control switch to the refrigeration system</li> <li>◆ Wiring up the pump down control circuit of refrigeration system</li> <li>◆ Conduct functional test of the low pressure control switch, high pressure control switch, and the oil pressure safety control switch</li> <li>◆ Conduct functional test of the pump down control circuits of refrigeration system</li> </ul> <p>6.3 Professionalism in wiring up pressure control and pump down control circuits of refrigeration system</p> <ul style="list-style-type: none"> <li>◆ Follow the code of practice under the Electricity (Wiring) Regulations to wire up pressure control and pump down control circuits of refrigeration system safely</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to wire up pressure control and pump down control circuits of refrigeration system; and</p> <p>(ii) Capable to follow relevant code of practice when performing electrical wiring work.</p>
8. Remarks	This unit of competency is applicable to practitioners engaged in typical installation and repair work of electrical control system for air-conditioning and refrigeration.