

1. Title	Startup of gas turbines
2. Code	EMPEOM510A
3. Range	Perform startup operation of gas turbines in general industrial plants, power plants or other places.
4. Level	5
5. Credits	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1      Operating principle of gas turbine</p> <ul style="list-style-type: none"> <li>◆ Understand the basic principles of gas turbine operation, including the parts of: <ul style="list-style-type: none"> <li>• Frequency analysis</li> <li>• Inclusion of information on priorities</li> <li>• Mastering the combustion characteristics</li> <li>• Control</li> </ul> </li> <li>◆ Understand the structure of gas turbine <ul style="list-style-type: none"> <li>• Gas turbine (turbine) or power turbine</li> <li>• Air compressor</li> <li>• Combustion chamber</li> </ul> </li> </ul> <p>6.2      Startup methods and procedures for gas turbines</p> <ul style="list-style-type: none"> <li>◆ Use the startup device of gas turbine</li> <li>◆ Start up the gas turbine according to specified methods and procedures</li> <li>◆ Solve the problems of gas turbine startup according to instructions</li> <li>◆</li> </ul> <p>6.3      Professionalism in the startup of gas turbine</p> <ul style="list-style-type: none"> <li>◆ Follow manufacturer’s instructions and procedures for operation to perform the startup of gas turbine</li> <li>◆ Perform gas turbine startup in compliance with the statutory code of safety and codes of practice</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i)      Capable to clearly explain the startup procedures for gas turbine;</p> <p>(ii)     Capable to perform the startup of gas turbine according to procedures;</p> <p>(iii)    Capable to compile reports on gas turbine startup; and</p> <p>(iv)     Capable to clearly report the startup status of gas turbine.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of gas turbine unit.