

1. Title	Startup preparations for gas turbines		
2. Code	EMPEOM509A		
3. Range	Perform startup operation of gas turbines in general industrial plants, power plants or other places.		
4. Level	5		
5. Credits	6		
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"> ◆ Understand the structure of gas turbine <ul style="list-style-type: none"> • Gas turbine (turbine) or power turbine • Air compressor • Combustion chamber ◆ Understand basic principles of gas turbine operation, including the parts of: <ul style="list-style-type: none"> • Frequency analysis • Inclusion of information on priorities • Mastering the combustion characteristics • Control ◆ Understand the procedures preparing for the startup of gas turbines <p>6.2 Procedures preparing for the startup of gas turbines</p> <ul style="list-style-type: none"> ◆ Know the startup procedures for various types of gas turbine and confirm that the status of the gas turbine is suitable for startup ◆ Conduct pre-startup check for the gas turbine auxiliaries according to the requirements of operation procedure ◆ Monitor the system operation according to the operation procedure <p>6.3 Professionalism in preparing for the startup of gas turbine</p> <ul style="list-style-type: none"> ◆ Follow manufacturer’s instructions and procedures for gas turbine operation to perform the startup preparations ◆ Prepare for the startup of gas turbine in compliance with the statutory code of safety and codes of practice 		
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to clearly explain the preparations for the startup of gas turbine;</p> <p>(ii) Capable to perform the preparations for the startup of gas turbine according to procedures;</p> <p>(iii) Capable to compile reports on the preparations for the startup of gas turbine; and</p> <p>(iv) Capable to clearly report the status of preparing for the startup 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.		