

1. Title	Incident handling and failure analysis for gas turbines
2. Code	EMPEOM503A
3. Range	Perform incident handling and failure analysis for 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 Methods of incident handling and failure analysis for gas turbines</p> <ul style="list-style-type: none"> ◆ Be familiar with the causes and handling methods for gas turbine incidents such as: <ul style="list-style-type: none"> • Gas turbine oil leakage • Gas turbine blast • Gas turbine burning up • Operation of gas turbine protection system causing trips such as <ul style="list-style-type: none"> ▶ Over speed ▶ Bearing vibration too high ▶ Oil pressure of bearing too low <p>6.2 Procedures of incident handling and failure analysis for gas turbines</p> <ul style="list-style-type: none"> ◆ Perform incident handling for circulating cooling water system, eliminate the failure to safeguard the system and environment ◆ Inform relevant departments and report on the incident ◆ Perform failure analysis and various types of contingencies such as <ul style="list-style-type: none"> • Emergency shutdown • Arrangement for staff evacuation • Oil pollution treatment: sandbag / chemical methods <p>6.3 Professionalism in incident handling and failure analysis for gas turbines</p> <ul style="list-style-type: none"> ◆ Locate the incident, analyze the cause of failure and handle it immediately according to your common sense and expertise and manufacturer's information ◆ Perform incident handling and failure analysis for gas turbines in compliance with the code of safety and code of practice
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to handle the gas turbine incidents;</p> <p>(ii) Capable to compile reports on failure analysis and handling methods for gas turbines; and</p> <p>(iii) Capable to clearly report the status of gas turbines.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person is already familiar with the startup preparations, startup, normal operation and adjustment and shutdown of gas turbines.