

1. Title	Incident handling and failure analysis for boilers	
2. Code	EMPEOM501A	
3. Range	Perform incident handling and failure analysis for boilers 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 boilers</p> <ul style="list-style-type: none"> <li>◆ Be familiar with the causes and handling methods for boiler incidents such as: <ul style="list-style-type: none"> <li>• Boiler burst</li> <li>• Boiler shrink</li> <li>• Boiler burning up</li> <li>• Boiler swell</li> <li>• Boiler crack</li> <li>• Boiler tube rupture</li> <li>• Operation of boiler protection system causing trips such as <ul style="list-style-type: none"> <li>▶ Steam drum water level being abnormal</li> <li>▶ Boiler burner losing flames</li> <li>▶ Fuel system failure</li> </ul> </li> </ul> </li> </ul> <p>6.2 Procedures of incident handling and failure analysis for boilers</p> <ul style="list-style-type: none"> <li>◆ Perform incident handling for circulating cooling water system, eliminate the failure to safeguard the system and environment</li> <li>◆ Inform relevant departments and report on the incident</li> <li>◆ Perform failure analysis and various types of contingencies such as <ul style="list-style-type: none"> <li>• Emergency shutdown</li> <li>• Arrangement for staff evacuation</li> </ul> </li> </ul> <p>6.3 Professionalism in incident handling and failure analysis for boilers</p> <ul style="list-style-type: none"> <li>◆ Locate the incident, analyze the cause of failure and handle it immediately according to your common sense and expertise and manufacturer's information</li> <li>◆ Perform incident handling and failure analysis for boilers in compliance with the code of safety as required by the law and the code of practice</li> </ul>	
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to handle the incidents of boilers;</p> <p>(ii) Capable to compile reports on failure analysis and handling methods for boilers; and</p> <p>(iii) Capable to clearly report the status of boilers.</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 boilers.	