

1. Title	Control the water level of boiler steam drum									
2. Code	EMPEOM409A									
3. Range	Control the water level of boiler steam drum in general industrial plants, power plants or other places.									
4. Level	4									
5. Credits	6									
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <table border="0"> <tr> <td style="vertical-align: top;">6.1</td> <td style="vertical-align: top;">Principles of boiler operation and controlling the water level of boiler steam drum</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Understand the basic principles of boiler operation</li> <li>◆ Be familiar with the principles and method of controlling the water level of boiler steam drum</li> <li>◆ Understand the boiler steam drum water level protection system</li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Procedures and techniques of controlling the water level of boiler steam drum</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Analyze and handle the failures of boiler circulating pumps such as the water level problem of boiler steam drum</li> <li>◆ Analyze and handle the failures of steam drum water level meter</li> <li>◆ Analyze and handle the failures of steam drum water level being extremely high or extremely low</li> <li>◆ Analyze and handle the simultaneous rise of steam and water</li> <li>◆ Analyze and handle the failure of the interruption of water flow</li> <li>◆ Analyze and handle the failures of boiler feed pumps</li> <li>◆ Analyze and handle the failures of feed regulating valves</li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in controlling the water level of boiler steam drum</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Follow the code of safety, practical guidelines and manufacturer's instruction manual to control the water level of boiler steam drum properly</li> </ul> </td> </tr> </table>	6.1	Principles of boiler operation and controlling the water level of boiler steam drum	<ul style="list-style-type: none"> <li>◆ Understand the basic principles of boiler operation</li> <li>◆ Be familiar with the principles and method of controlling the water level of boiler steam drum</li> <li>◆ Understand the boiler steam drum water level protection system</li> </ul>	6.2	Procedures and techniques of controlling the water level of boiler steam drum	<ul style="list-style-type: none"> <li>◆ Analyze and handle the failures of boiler circulating pumps such as the water level problem of boiler steam drum</li> <li>◆ Analyze and handle the failures of steam drum water level meter</li> <li>◆ Analyze and handle the failures of steam drum water level being extremely high or extremely low</li> <li>◆ Analyze and handle the simultaneous rise of steam and water</li> <li>◆ Analyze and handle the failure of the interruption of water flow</li> <li>◆ Analyze and handle the failures of boiler feed pumps</li> <li>◆ Analyze and handle the failures of feed regulating valves</li> </ul>	6.3	Professionalism in controlling the water level of boiler steam drum	<ul style="list-style-type: none"> <li>◆ Follow the code of safety, practical guidelines and manufacturer's instruction manual to control the water level of boiler steam drum properly</li> </ul>
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7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to control the water level of boiler steam drum;</p> <p>(ii) Capable to compile reports on controlling the water level of boiler steam drum; and</p>									
8. Remarks	<p>(iii) Capable to clearly report the operational status of the boiler.</p>									
	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of boiler operation.</p>									