

1. Title	Startup of circulating cooling water systems	
2. Code	EMPEOM203A	
3. Range	Perform the startup of circulating cooling water systems in general industrial plants, power plants or other places.	
4. Level	2	
5. Credits	3	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Startup theory of system</p> <ul style="list-style-type: none"> ◆ Understand the basics of the operation of circulating cooling water systems ◆ Understand the operating principle of other equipment in the system <ul style="list-style-type: none"> • Circulating water pump • Circulating water booster pump • Condenser • Cooling water pipes • Valves • Chlorination equipment <p>6.2 Methods and procedures of system startup</p> <ul style="list-style-type: none"> ◆ Know the startup procedures for circulating cooling water systems ◆ start up the circulating cooling water systems according to specified methods and procedures <p>6.3 Professionalism in system startup</p> <ul style="list-style-type: none"> ◆ Follow manufacturer's instructions and procedures of operating circulating cooling water system to perform the startup and shutdown tasks for the circulating cooling water systems ◆ The startup and shutdown of circulating cooling water systems should be performed in compliance with the safety requirements of working guidelines and requirements of codes of practice 	
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to perform startup of circulating cooling water systems under instruction and according to guidelines;</p> <p>(ii) Capable to explain the startup procedures for the circulating cooling water systems; and</p> <p>(iii) Capable to complete report forms for the startup of the circulating cooling water systems.</p>	
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of industry safety and mechanical operation.	