

1. Title	Normal running operations and adjustment of circulating cooling water systems									
2. Code	EMPEOM204A									
3. Range	Perform running operations and adjustment 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> <table border="0"> <tr> <td style="vertical-align: top;">6.1</td> <td style="vertical-align: top;">Principles of normal running operations of systems</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Understand the normal running of systems ◆ Understand methods and procedures of adjusting the systems ◆ Understand the importance of adjusting the systems <ul style="list-style-type: none"> • Ensure the safe operation of systems • Ensure that the systems are running economically </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Methods and procedures for normal running operations and adjustment of systems</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Monitor the system parameters <ul style="list-style-type: none"> • Quality of condensate water • Temperature of condenser • Water level of condenser ◆ Monitor the operation of the circulating cooling water system <ul style="list-style-type: none"> • Pressure of cooling water inlet and outlet • Temperature of cooling water inlet and outlet • Condenser's vacuum level • Chlorine content of circulating cooling water </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in normal running operations and adjustment of systems</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Follow manufacturer's instructions and procedures for system operation to perform the adjustment ◆ The adjustment of the operation of systems should be performed in compliance with the safety requirements of working guidelines and requirements of codes of practice </td> </tr> </table>	6.1	Principles of normal running operations of systems	<ul style="list-style-type: none"> ◆ Understand the normal running of systems ◆ Understand methods and procedures of adjusting the systems ◆ Understand the importance of adjusting the systems <ul style="list-style-type: none"> • Ensure the safe operation of systems • Ensure that the systems are running economically 	6.2	Methods and procedures for normal running operations and adjustment of systems	<ul style="list-style-type: none"> ◆ Monitor the system parameters <ul style="list-style-type: none"> • Quality of condensate water • Temperature of condenser • Water level of condenser ◆ Monitor the operation of the circulating cooling water system <ul style="list-style-type: none"> • Pressure of cooling water inlet and outlet • Temperature of cooling water inlet and outlet • Condenser's vacuum level • Chlorine content of circulating cooling water 	6.3	Professionalism in normal running operations and adjustment of systems	<ul style="list-style-type: none"> ◆ Follow manufacturer's instructions and procedures for system operation to perform the adjustment ◆ The adjustment of the operation of systems should be performed in compliance with the safety requirements of working guidelines and requirements of codes of practice
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7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to explain the procedures for normal running operations and adjustment of systems; (ii) Capable to explain the arrangement of scheduled repair; (iii) Capable to perform running operations and adjustment of systems under instruction and according to the adjustment procedures; (iv) Capable to complete report forms for the running operations of circulating cooling water systems; and (v) Capable to clearly report the operational status of the systems. 									
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.									