

1. Title	Analyze non-conventional faults in various types of water pumps									
2. Code	EMPERM503A									
3. Range	Analyze non-conventional faults in various types of water pumps 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> <table border="0"> <tr> <td style="vertical-align: top;">6.1</td> <td style="vertical-align: top;">Properties of various types of water pumps</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Master the construction and non-conventional damages of various types of water pumps ◆ Master the methods of using, repairing and maintaining repair tools and measuring instruments ◆ Master the important points and quality standards for repairing various types of water pumps, including disintegration, clean-up inspection, repair and debug ◆ Master the flow of pipes fluid and the interaction among the water pumps ◆ Master the techniques of monitoring the water pump operation ◆ Master the structure and design of various types of water pumps </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Analyze abnormal operational status of various types of water pumps</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Use measuring instruments to measure and monitor abnormal operational status of water pumps ◆ Analyze abnormal operational status of water pumps </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in analyzing various types of water pumps</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Analyze faults ◆ Find out solutions according to the water pump design and operational requirements so as to meet the engineering requirements and quality standards ◆ Compile analytical reports on non-conventional faults </td> </tr> </table>	6.1	Properties of various types of water pumps	<ul style="list-style-type: none"> ◆ Master the construction and non-conventional damages of various types of water pumps ◆ Master the methods of using, repairing and maintaining repair tools and measuring instruments ◆ Master the important points and quality standards for repairing various types of water pumps, including disintegration, clean-up inspection, repair and debug ◆ Master the flow of pipes fluid and the interaction among the water pumps ◆ Master the techniques of monitoring the water pump operation ◆ Master the structure and design of various types of water pumps 	6.2	Analyze abnormal operational status of various types of water pumps	<ul style="list-style-type: none"> ◆ Use measuring instruments to measure and monitor abnormal operational status of water pumps ◆ Analyze abnormal operational status of water pumps 	6.3	Professionalism in analyzing various types of water pumps	<ul style="list-style-type: none"> ◆ Analyze faults ◆ Find out solutions according to the water pump design and operational requirements so as to meet the engineering requirements and quality standards ◆ Compile analytical reports on non-conventional faults
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7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to analyze non-conventional faults in various types of water pumps ; and</p> <p>(ii) Capable to compile analytical reports on non-conventional faults.</p>									
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses the ability of routine repair of various types of water pumps.									