

1. Title	Repair industrial water online chemical testing instruments									
2. Code	EMPEOM214A									
3. Range	Perform routine testing and repair on industrial water online chemical testing instruments in general industrial plants, power plants or other places.									
4. Level	2									
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;">Structure and basic working principle of common industrial water online chemical testing instruments and detector probes</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Know about the structure and basic working principle of common industrial water online chemical testing instruments including: <ul style="list-style-type: none"> • PH and conductivity testers ◆ Know the methods of calibrating the tester probes of the above instruments ◆ Understand the circuit diagram of water system </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Techniques of repairing industrial water online chemical testing instruments</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Repair industrial water online chemical testing instruments, including: <ul style="list-style-type: none"> • Installing the instruments in the industrial systems and calibrating the tester probes • Analyze and diagnose the common faults on equipment </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in repairing industrial water online chemical testing instruments</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Follow instrument manufacturer's repair guide and the code of safety to <ul style="list-style-type: none"> • Correctly operate the equipment and conduct fault analysis • Start and stop the operation of online chemical testing instruments </td> </tr> </table>	6.1	Structure and basic working principle of common industrial water online chemical testing instruments and detector probes	<ul style="list-style-type: none"> ◆ Know about the structure and basic working principle of common industrial water online chemical testing instruments including: <ul style="list-style-type: none"> • PH and conductivity testers ◆ Know the methods of calibrating the tester probes of the above instruments ◆ Understand the circuit diagram of water system 	6.2	Techniques of repairing industrial water online chemical testing instruments	<ul style="list-style-type: none"> ◆ Repair industrial water online chemical testing instruments, including: <ul style="list-style-type: none"> • Installing the instruments in the industrial systems and calibrating the tester probes • Analyze and diagnose the common faults on equipment 	6.3	Professionalism in repairing industrial water online chemical testing instruments	<ul style="list-style-type: none"> ◆ Follow instrument manufacturer's repair guide and the code of safety to <ul style="list-style-type: none"> • Correctly operate the equipment and conduct fault analysis • Start and stop the operation of online chemical testing instruments
6.1	Structure and basic working principle of common industrial water online chemical testing instruments and detector probes	<ul style="list-style-type: none"> ◆ Know about the structure and basic working principle of common industrial water online chemical testing instruments including: <ul style="list-style-type: none"> • PH and conductivity testers ◆ Know the methods of calibrating the tester probes of the above instruments ◆ Understand the circuit diagram of water system 								
6.2	Techniques of repairing industrial water online chemical testing instruments	<ul style="list-style-type: none"> ◆ Repair industrial water online chemical testing instruments, including: <ul style="list-style-type: none"> • Installing the instruments in the industrial systems and calibrating the tester probes • Analyze and diagnose the common faults on equipment 								
6.3	Professionalism in repairing industrial water online chemical testing instruments	<ul style="list-style-type: none"> ◆ Follow instrument manufacturer's repair guide and the code of safety to <ul style="list-style-type: none"> • Correctly operate the equipment and conduct fault analysis • Start and stop the operation of online chemical testing instruments 								
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to perform routine repair on industrial water online chemical testing instruments under instruction;</p> <p>(ii) Capable to complete report forms for the repair of industrial water online chemical testing instruments; and</p> <p>(iii) Capable to explain the method of repairing industrial water online chemical testing instruments.</p>									
8. Remarks										