

1. Title	Repair and maintain paint coatings of ships											
2. Code	EMSRRM305A											
3. Range	Apply the knowledge of paint repairs and maintenance to assist in planning and implementing frontline supervision of general hull painting projects or coating repairs and maintenance of ocean-going or coastal-sailing ships.											
4. Level	3											
5. Credit	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;">Knowledge and range of application of ship paints</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Understand the components of paints such as synthetic resins, plasticizers and dry oil</li> <li>◆ Understand the properties and range of application of ship paints</li> <li>◆ Understand the steps, techniques and principles of applying and spraying paint</li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Work procedures and techniques of ship paint repairs and maintenance</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Master work procedures and repair methods of various types of paints such as brushing, rolling and spraying paint</li> <li>◆ Perform paint spraying according to approved procedures or instructions of painting manual so as to               <ul style="list-style-type: none"> <li>• Have correct thickness of coating</li> <li>• Have a smooth surface</li> <li>• Focus on one spot to spray the paint</li> <li>• Correctly blend the paint</li> </ul> </li> <li>◆ Select and use appropriate paints according to different parts of hull (e.g. ship bottom, waterline section, upper hull, hull deck, cabin, fuel tank, pressure tank, cargo cabin, drinking water tank)</li> <li>◆ Adopt appropriate measures to repair degraded coating according to the actual environment and condition</li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in ship paint repairs and maintenance</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Ensure work procedures meet safety requirements and engineering rules such as providing appropriate protection gear for work</li> <li>◆ Know how to identify the causes of paint peeling and look for solutions</li> <li>◆ Inspect the performance, characteristics and painted surface quality of various types of ship paint, and give advice on reconditioning of coating if necessary</li> <li>◆ Compile simple reports to record the progress of painting work</li> </ul> </td> </tr> </table>			6.1	Knowledge and range of application of ship paints	<ul style="list-style-type: none"> <li>◆ Understand the components of paints such as synthetic resins, plasticizers and dry oil</li> <li>◆ Understand the properties and range of application of ship paints</li> <li>◆ Understand the steps, techniques and principles of applying and spraying paint</li> </ul>	6.2	Work procedures and techniques of ship paint repairs and maintenance	<ul style="list-style-type: none"> <li>◆ Master work procedures and repair methods of various types of paints such as brushing, rolling and spraying paint</li> <li>◆ Perform paint spraying according to approved procedures or instructions of painting manual so as to               <ul style="list-style-type: none"> <li>• Have correct thickness of coating</li> <li>• Have a smooth surface</li> <li>• Focus on one spot to spray the paint</li> <li>• Correctly blend the paint</li> </ul> </li> <li>◆ Select and use appropriate paints according to different parts of hull (e.g. ship bottom, waterline section, upper hull, hull deck, cabin, fuel tank, pressure tank, cargo cabin, drinking water tank)</li> <li>◆ Adopt appropriate measures to repair degraded coating according to the actual environment and condition</li> </ul>	6.3	Professionalism in ship paint repairs and maintenance	<ul style="list-style-type: none"> <li>◆ Ensure work procedures meet safety requirements and engineering rules such as providing appropriate protection gear for work</li> <li>◆ Know how to identify the causes of paint peeling and look for solutions</li> <li>◆ Inspect the performance, characteristics and painted surface quality of various types of ship paint, and give advice on reconditioning of coating if necessary</li> <li>◆ Compile simple reports to record the progress of painting work</li> </ul>
6.1	Knowledge and range of application of ship paints	<ul style="list-style-type: none"> <li>◆ Understand the components of paints such as synthetic resins, plasticizers and dry oil</li> <li>◆ Understand the properties and range of application of ship paints</li> <li>◆ Understand the steps, techniques and principles of applying and spraying paint</li> </ul>										
6.2	Work procedures and techniques of ship paint repairs and maintenance	<ul style="list-style-type: none"> <li>◆ Master work procedures and repair methods of various types of paints such as brushing, rolling and spraying paint</li> <li>◆ Perform paint spraying according to approved procedures or instructions of painting manual so as to               <ul style="list-style-type: none"> <li>• Have correct thickness of coating</li> <li>• Have a smooth surface</li> <li>• Focus on one spot to spray the paint</li> <li>• Correctly blend the paint</li> </ul> </li> <li>◆ Select and use appropriate paints according to different parts of hull (e.g. ship bottom, waterline section, upper hull, hull deck, cabin, fuel tank, pressure tank, cargo cabin, drinking water tank)</li> <li>◆ Adopt appropriate measures to repair degraded coating according to the actual environment and condition</li> </ul>										
6.3	Professionalism in ship paint repairs and maintenance	<ul style="list-style-type: none"> <li>◆ Ensure work procedures meet safety requirements and engineering rules such as providing appropriate protection gear for work</li> <li>◆ Know how to identify the causes of paint peeling and look for solutions</li> <li>◆ Inspect the performance, characteristics and painted surface quality of various types of ship paint, and give advice on reconditioning of coating if necessary</li> <li>◆ Compile simple reports to record the progress of painting work</li> </ul>										

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>(i) Capable to correctly implement general ship painting repairs, and complete work details according to approved practice and procedures; and</li> <li>(ii) Capable to select and use appropriate methods to identify the causes of paint peeling, and adopt appropriate measures to repair degraded coating.</li> </ul>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic ship painting knowledge and techniques, and the competency of EMSRRM209A “Ship-painting works”.</p>