

1. Title	Repair and maintain ship hull and its structural elements
2. Code	EMSRRM206A
3. Range	Apply the techniques and knowledge of hull structures to assisting in regular repairs and maintenance of hull plate and its structural elements, or repairs or replacements of common hull structures at dockyards, maintenance shipyards or relevant locations.
4. Level	2
5. Credit	8
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Basic knowledge of hulls and their components</p> <ul style="list-style-type: none"> <li>◆ Know about the general safety practice for pressing and jointing metal plates for ships</li> <li>◆ Know about the methods of full position bonding, rolling and dynamic pressing and their application to ship structure repairs</li> <li>◆ Know about the main functions of common hull plates and their structures <ul style="list-style-type: none"> <li>• upper deck, hull plates and bilge motherboard, under-waterline plate, reinforced deck, hull frame, bow-to-stern frame, bulkhead plates and fabricated plates inside oil and water tank</li> </ul> </li> </ul> <p>6.2 Methods and procedures of repairing hull structures</p> <ul style="list-style-type: none"> <li>◆ Perform repair and maintenance routines such as pressing, forming and repairing hull metal plates according to instructions</li> <li>◆ Use tools and common forming, bending and rolling machines effectively and carry out the processes of toughening metal plates and pressing metal plates</li> </ul> <p>6.3 Professionalism in repairing hull structures</p> <ul style="list-style-type: none"> <li>◆ Inspect the positions of the hull structures which are frequently flushed, water-soaked, abraded and corroded, and give advice on repair if necessary</li> <li>◆ Identify the hull sections which are usually worn out and their jointing conditions and adopt measures to stop deterioration</li> <li>◆ Describe the details of repair and maintenance works clearly</li> </ul>

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"><li data-bbox="379 304 1482 383">(i) Capable to perform tasks of repairing and maintaining common ship metal plates and hull structures so as to pass the error requirements of drawings; and</li><li data-bbox="379 405 1482 483">(ii) Capable to select and use appropriate tools to perform routines of repairing and maintaining hull structures according to repair instructions.</li></ul>
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses the basic techniques of using general workshop tools and metal jointing equipment.</p>