

1. Title	Organize and arrange assembly of ship hulls	
2. Code	EMSRIN403A	
3. Range	Apply the assembly techniques to formulation of hull repair and assembly procedures (including aluminium alloy and GRP ships) when handling daily tasks related to installation or repairs of hulls; lead groups to work and perform general tasks of frontline works management at shipyards.	
4. Level	4	
5. Credit	3	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Structure of and work requirements on hulls</p> <ul style="list-style-type: none"> ◆ Understand the structure of hulls, such as: <ul style="list-style-type: none"> • Technical terms and definition of main components • Structural arrangements of different ship cabins and thicknesses of plate materials for assembly ◆ Be familiar with the assembly work requirements such as relevant constitution and regulations on assembling hulls and criteria on allowed wear of hull parts established by general regulatory bodies or classification societies <p>6.2 Methods and procedures of leading hull assembly works</p> <ul style="list-style-type: none"> ◆ Arrange for the assembly works to ensure proper plans, technical specifications, materials and equipment for execution of works. For example <ul style="list-style-type: none"> • preparing for different types of jointing edges according to thickness requirement to prevent shrinkage and deformation ◆ Adopt strict surveillance measures for important work processes, such as: <ul style="list-style-type: none"> • Make strength analysis on joint weld and fillet weld with thickness of 35 mm or below <p>6.3 Professionalism in arranging hull assembly works</p> <ul style="list-style-type: none"> ◆ Monitor the procedures of assembling hulls according to technical guidelines of regulatory bodies and classification societies, in-house guidelines, customer needs and instructions on working drawings, and ensure that the procedures are in compliance with approved practice ◆ Make decisions on assembly according to approved procedures, and standards and limitations recommended by regulatory bodies or classification societies ◆ Organize work procedures and coordinate the efforts according to actual situations 	

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"><li data-bbox="386 302 1492 380">(i) Capable to compare the merits and demerits and concerns of various types of technologies in the course of formulating procedures for assembling hulls; and<li data-bbox="386 392 1492 481">(ii) Capable to lead groups to carry out assembly procedures, to apply tools and instruments, to record data and to work to the prescribed standards for assembly.
8. Remarks	<p>This unit of competency is applicable to frontline managers of ship repair and hull assembly. The credit value of this unit of competency is set on the presumption that the person already the use of installation tools, techniques of oxyacetylene cutting, welding, copper welding and machining, and skills of mathematical analysis of stress and strain.</p>