

1. Title	Sea-trial inspection and seaworthiness tests	
2. Code	EMSRT501A	
3. Range	Perform tasks related to ship inspection and seaworthiness tests according to the requirements of relevant ordinances.	
4. Level	5	
5. Credit	3	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Standards of sea-trials ♦ Understand the details of and exemption criteria for sea -trials, such as:</p> <ul style="list-style-type: none"> • Scope of tests • Items for sea trials and seaworthiness tests <p>6.2 Methods and procedures of conducting sea-trial inspection and seaworthiness tests ♦ Understand the methods and procedures of conducting sea-trial inspection and seaworthiness tests, including:</p> <ul style="list-style-type: none"> • Arranging the tests to be conducted under the surveillance of a surveyor • Submitting required documents, such as information on the scope of tests and records of parameters • Performing all the required items, such as adjustment and control of the conditions for testing and demonstration of the normal functioning of the main and auxiliary machinery, according to ship classes and test requirements • Testing whether the service speed meets the requirement, and checking the propulsion in the case of failure of major auxiliary units • Conducting navigation and steering tests, such as astern trials and zigzag movements • Testing boilers, diesel engines (of different power/speed) and turbines • Performing inspection of machinery after sea trials, including all the propulsion machinery and the components that do not meet the test requirements <p>6.3 Professionalism in conducting sea trail inspection and seaworthiness tests ♦ Conduct checks and tests for ships as required by dockyards, ship owners and contracts</p> <p>♦ Compile detailed reports on results of ship inspection and make recommendations</p>	

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none">(i) Capable to carry out sea-trial inspection and seaworthiness tests properly and assess whether the performance of ships meets relevant requirements; and(ii) Capable to compile inspection reports and make recommendations.
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic marine knowledge (such as EMSRIT303A “Hull-stability examination and inclination test” and EMSRIT403A “Marine inspection and ship survey”).</p>