

1. Title	Repair and maintain general marine devices
2. Code	EMSRRM102A
3. Range	Assist in helping tasks of repairing and maintaining marine engineering equipment and power units and general care such as cleaning of machines when handling elementary routines related to ship repair and mechanical engineering.
4. Level	1
5. Credit	6
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Common knowledge and terminology of marine engineering equipment</p> <ul style="list-style-type: none"> ◆ Identify different types of energy conversion devices suitable for the following three chemical fuel states: <ul style="list-style-type: none"> • Solid state: steam turbine and boiler • Liquid state: steam turbine and boiler, gas turbine and internal combustion engine • Vapour state: steam turbine and boiler, gas turbine ◆ Know about elementary and common marine power equipment and basic accessories such as: internal combustion engine, steam turbine and boiler, gas turbine ◆ Know about elementary and standard auxiliaries on ships such as: pump, compressor, refrigeration equipment, heating and cooling, auxiliary boiler and purifying equipment ◆ Understand common terms for related work <p>6.2 Methods of simple repair and maintenance of marine engineering equipment and power units</p> <ul style="list-style-type: none"> ◆ Understand safe practices, the use of tools and working procedures in machine room, and make use of them in repair work ◆ Assist in taking care of machine room such as cleaning parts and components of equipment, like boilers and marine engineering equipment, in the machine room ◆ Assist in repairing marine engineering equipment, know about common parts and tools, and carry out non-technical maintenance for marine engineering equipment <p>6.3 Professionalism in simple repairs and maintenance of marine engineering equipment and power units</p> <ul style="list-style-type: none"> ◆ Correctly select and use repairing tools and materials, maintain the repairing tools and equipment in good condition and assist in storing the materials correctly ◆ Understand and follow basic environmental protection measures when performing repairs ◆ Follow instructions to independently carry out the cleaning and maintenance of marine engineering equipment ◆ Follow the safety codes of practice at work to implement urgent tasks under supervision

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to implement the cleaning and maintenance of general marine main and auxiliary engines; and (ii) Capable to correctly select and use appropriate tools to carry out relevant work, and follow the instructions to assist in repairing marine engineering equipment.
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic mechanical knowledge.</p>