

1. Title	Repairs of marine engineering equipment and machines
2. Code	EMSRRM101A
3. Range	Apply the techniques of workshop mechanical operation and fitting and assembly to assist in scheduled maintenance or dock repairs of marine engineering equipment, and in implementing the tasks of mechanical fitting assistant and general tasks of a workshop trainee in dockyards or mechanical repair workshops.
4. Level	1
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of mechanical repair</p> <ul style="list-style-type: none"> ◆ Know about the basic principles and correct methods of operation of standard machinery and equipment for dockyards and workshops ◆ Know about the functions and uses of general instruments and tools for repairing marine engineering equipment and steps of using them <p>6.2 Methods and procedures for simple repairs and fitting of marine engineering equipment</p> <ul style="list-style-type: none"> ◆ Systematically implement relevant repair steps, such as: <ul style="list-style-type: none"> • Stopping or starting the power supply, water supply or compressed air supply of relevant equipment before and after the work • Applying hydraulic lifting appliances to disassemble marine engineering equipment • Basic fastening and disassembly of screws • Correctly assembling modular units, including sawing, flat filing, chiselling, brush scraping, drilling, bolting and riveting; the use of materials and ship cradle wedge ◆ Operate machines to perform simple repairs and fitting on marine engineering equipment accessories ◆ Understand the basic techniques of fastening and disassembling screws <p>6.3 Professionalism in simple repairs and fitting of marine engineering equipment</p> <ul style="list-style-type: none"> ◆ Correctly select and operate repairing instruments and materials, maintain the repairing equipment and instruments in good condition and assist in storing the repairing materials correctly ◆ Understand and follow basic environmental protection measures when performing repairs ◆ Follow instructions to independently carry out simple repairs and fitting work of marine engineering equipment ◆ Follow the safety codes of practice at work to implement urgent tasks under supervision

7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) Capable to assist in repairs and mechanical fitting of marine engineering equipment; and (ii) Capable to correctly select and use appropriate instruments to carry out relevant works, and follow the instructions to assist in repairing marine engineering equipment accessories.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of mechanical engineering repair and of using hand tools and power tools, and is able to carry out simple mechanical fitting of marine engineering equipment.