

1. Title	Test marine glass-fibre-reinforced plastic (GRP)
2. Code	EMSRLT407A
3. Range	Use different methods to judge whether the structure of glass-fibre-reinforced plastic equipment has any problem or defect when performing hull installation test.
4. Level	4
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Common defects in glass-fibre-reinforced plastic and test methods</p> <ul style="list-style-type: none"> ◆ Be familiar with the common defects in fibre glass enhanced plastic such as: <ul style="list-style-type: none"> • Delamination • Blisters • Distortion • Incomplete curing ◆ Be familiar with different test methods such as NDT methods and measurement <ul style="list-style-type: none"> • Range of applications and limitations • Accuracy <p>6.2 Techniques and procedures of testing marine glass-fibre-reinforced plastic</p> <ul style="list-style-type: none"> ◆ Master the uniqueness of different marine engineering equipment and effectively use appropriate test methods to identify the condition of plastic structure, such as: <ul style="list-style-type: none"> • Research relevant information (e.g. equipment being hit previously) to assist in planning the test procedures • Whether the position of equipment is suitable for using a certain test method <p>6.3 Professionalism in testing marine glass-fibre-reinforced plastic</p> <ul style="list-style-type: none"> ◆ Base on accurate test analysis to decide whether the plastic is suitable for further use or needs replacement
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to correctly test glass-fibre-reinforced plastic for problems and defects.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of testing (such as: EMSRLT201A “Test the physical strength of materials” and EMCUIN306A “Perform electrical and mechanical installation and testing according to the drawings and specifications of electrical devices and wiring”).