

1. Title	Install and disassemble marine electronic instruments	
2. Code	EMSRIN303A	
3. Range	Master and make use of the characteristics of various types of equipment to install and disassemble marine electronic instruments when performing related installation or repair works.	
4. Level	3	
5. Credit	3	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Characteristics and working principles of general marine electronic instruments</p> <ul style="list-style-type: none"> ◆ Know about marine electrical engineering and electronic engineering, and the basic working principles of instruments and equipment ◆ Know about the characteristics of actual operation and range of control for various types of marine electrical and electronic control equipment ◆ Be familiar with installation and disassembly guide for common marine electronic instruments <p>6.2 Methods and procedures of installing and disassembling general marine electronic instruments</p> <ul style="list-style-type: none"> ◆ Use appropriate tools to assemble, disassemble and install marine electronic instrument and: <ul style="list-style-type: none"> • Master the characteristics and limitations of craft skills used to assemble and install common marine electronic instruments • Follow requirements of relevant manuals to implement installation and disassembly procedure in order to meet the technical specifications <p>6.3 Professionalism in installing and disassembling general marine electronic instruments</p> <ul style="list-style-type: none"> ◆ Properly follow important assembly instruction parameters (e.g. installation manual, manufacturer's guidelines, etc.) for marine electronic instrument components ◆ Correctly use measure and calibrate instruments and take reasonable measures ◆ Use appropriate equipment and mechanical tools and comply with general safety practices 	

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Know how to correctly implement procedures of installing and disassembling general marine electronic instruments, use tools and instruments, record data and calibrate the instruments to the prescribed standard ; and (ii) Capable to accurately know the effect of the installation or disassembly process on the accessory installations and system, and correctly understand the drawings in order to implement the work.
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic ship, equipment arrangement and electronic technology knowledge. (such as: EMSRIN201A “Basic layout and assembly of ship power units” and EMSRIN202A “Basic layout of marine electrical installations”) °</p>