

1. Title	Organize and arrange installation of communication equipment on ships		
2. Code	EMSRIN405A		
3. Range	Formulate installation procedures, supervise works execution and perform general tasks of frontline works management at shipyards when handling daily tasks related to installation of marine electronic navigating equipment and radio communication system.		
	4		
5. Credit	3		
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Basic electronics and radio communication technology</p> <ul style="list-style-type: none"> ◆ Know about electronic engineering, navigation instruments and principles of radio communication ◆ Understand the operation requirements for marine electronic navigating and radio communication devices ◆ Know about the technical standards of the performance of electronic navigating and radio communication equipment <p>6.2 Methods and procedures of supervising the installation and removal of electronic navigating equipment and radio communication devices</p> <ul style="list-style-type: none"> ◆ Ensure in the process of works supervision that thorough consideration is given to the integration of marine electronic navigating and radio communication equipment, including circuit protection, wiring, feedback signal and normal working condition during works execution ◆ Ensure that the activities of removal and installation are done according to plans meeting technical, conventional, safety and procedural standards ◆ Identify the impact of the installation or removal on auxiliary devices and the system, and use surveying and calibration instruments for conducting the removal or installation properly <p>6.3 Professionalism in supervising the installation and removal of electronic navigating equipment and radio communication devices</p> <ul style="list-style-type: none"> ◆ Compare the working conditions of electronic navigating system and radio communication equipment and ensure that their performance meets manufacturer's indicators and installation manual requirements ◆ Take actions according to approved procedures or the standards and limitations stated in installation manuals and make decisions on installation and removal ◆ Organize installation and removal procedures and coordinate the efforts according to actual situations 		

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to explain the operating principles of marine electronic navigating and radio communication system properly; (ii) Capable to supervise the removal and installation of marine electronic navigating devices and radio communication equipment; and (iii) Capable to ensure that installation procedures, application of tools and instruments, and data recording and adjusting procedures meet the specified standards of assembly.
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses the basic knowledge of a ship electrician and of electronic communication (such as EMSRIN202A “Basic layout of marine electrical installations” and EMSRIN303A “Install and disassemble marine electronic instruments”).</p>