

1. Title	Basic layout of marine electrical installations
2. Code	EMSRIN202A
3. Range	Implement basic layout and installation of general ship electrical systems on ships, repair workshops or dockyards.
4. Level	2
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Basic layout of marine electrical installations</p> <ul style="list-style-type: none"> ◆ Identify different types of ship cables and their basic applications and installation ◆ Know about circuit protectors for all kinds of ship models ◆ Know about onboard earthing devices and the needs and operation modes for connecting onshore electrical facilities <p>6.2 Methods and procedures of electrical wiring</p> <ul style="list-style-type: none"> ◆ Calculate the size of cables required and select ship electrical facility configuration with correct type of cable according to specified information and conditions ◆ Use appropriate metal or plastic conduits for electrical wiring to make it safe and durable ◆ Effectively apply earthing devices and method <p>6.3 Professionalism in electrical wiring</p> <ul style="list-style-type: none"> ◆ Follow the guidelines of relevant personal safety measures to implement tasks related to ship electrical system
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to efficiently implement basic layout and installation of general ship electrical systems.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic electrical knowledge.