1. Title	Design marine electrical equipment
2. Code	EMSRDE404A
3. Range	Apply design principles of marine electrical equipment to performing general tasks in design studio and making design drawings.
4. Level	4
5. Credit	6
6. Competency	Performance Requirements
	 6.1 Specifications, basic construction and range of application of marine electrical installations Be familiar with general marine electrical installations, including transformers, DC/AC motor, AC generators and lighting Be familiar with marine power supply and distribution system Be familiar with electrical specifications and cable requirements
	 6.2 Techniques of designing marine electrical installations Apply design principles and specifications for marine electrical installations to designing general marine electrical installations and accessories Draw drafts of marine electrical installations
	 6.3 Professionalism in designing marine electrical installations Follow in-house guidelines and legislations related to marine electrical installations, ensuring that the installation design meets safety standard
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are:
	(i) Capable to design general marine electrical installations and accessories ; and
	(ii) Capable to draw drafts of marine electrical installations.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of electrical equipment (such as: EMCUDE109A "Identify general properties of different types of typical electrical and mechanical engineering materials" and EMSRIN202A "Basic layout of marine electrical installations".