

1. Title	Use computer software to assist in ship-design projects
2. Code	EMSRDE405A
3. Range	In routine ship-design projects, use computer to perform general tasks in design office and to produce design drawings.
4. Level	4
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Scope of application of computer aided ship design</p> <ul style="list-style-type: none"> <li>◆ Master the scope of application of computer aided ship design, including: <ul style="list-style-type: none"> <li>• 2D and geometric model production</li> <li>• graphic operation and wireframe techniques</li> <li>• conversion system and rendering</li> </ul> </li> <li>◆ Master the scope of application of computer aided ship design software</li> </ul> <p>6.2 Methods of using computer-aided ship design</p> <ul style="list-style-type: none"> <li>◆ Know how to use the techniques of engineering design simulation, analysis and optimization in computer aided ship design</li> <li>◆ Consider the interaction, processing and design characteristics of materials in the design process</li> </ul> <p>6.3 Professionalism in using computer aided ship design</p> <ul style="list-style-type: none"> <li>◆ Include basic concepts of quality and reliability in the design process</li> <li>◆ Use professional ship design software</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to make geometric models and perform ship design with the aid of computer software; and</p> <p>(ii) Capable to perform engineering design according to design principles.</p>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic computer knowledge.