1. Title	Inspect, repair and install general piping
2. Code	EMSRIN304A
3. Range	Inspect, repair and install general low or medium pressure pipes on board, at repair workshops or at related work sites of dockyards.
4. Level	3
5. Credit	6
6. Competency	Performance Requirements
	6.1       Characteristics of common piping materials and common tools for working on pipes, and working principles of pipe drawings       • Understand the characteristics and materials commonly used for installation, inspection and repair of pipes, including: • Types of pipes         • Joint accessories drawings       • Types of flanges         • Joint accessories       • Filler materials         • Bedding and coating materials       • Bedding and coating materials         • Heat insulation materials       • Heat insulation materials         • Know how to use piping tools and instruments including:       • Pumps for water pressure test pump and pressure gauge         • Grive machine       • Pipe-bending machine         • Level gauge       • Know how to read and understand mechanical drawings of general equipment         • Structural drawings       • Sketches for machining parts         • Piping layouts       • Piping layouts         • Pipelines stereogram       • System drawings         • Assembly drawings       • Know the meanings of symbols on the drawings, including tolerance match, surface finish and geometrical tolerance

	<ul> <li>6.2 Procedures and requirements for installing, inspecting and repairing low or medium pressure pipe system</li> <li>6.3 Professionalism in repairing low or medium pressure pipes</li> <li>6.3 Professionalism in repairing low or medium pressure pipes</li> <li>6.3 Professionalism in repairing low or medium pressure pipes</li> <li>6.3 Professionalism in repairing low or medium pressure pipes</li> <li>6.4 Professionalism in repairing low or medium pressure pipes</li> <li>6.3 Professionalism in repairing low or medium pressure pipes</li> <li>6.4 Professionalism in repairing low or medium pressure pipes</li> <li>6.3 Professionalism in repairing low or medium pressure pipes</li> <li>6.4 Professionalism in repairing low or medium pressure pipes</li> <li>6.5 Professionalism in repairing low or medium pressure pipes</li> <li>6.3 Professionalism in repairing low or medium pressure pipes</li> <li>6.4 Professionalism in repairing low or medium pressure pipes</li> <li>6.5 Professionalism in repairing low or medium pressure pipes</li> <li>6.4 Professionalism in repairing low or medium pressure pipes</li> <li>6.5 Professionalism in repairing low or medium pressure pipes</li> <li>6.4 Professionalism in repairing low or medium pressure pipes</li> <li>6.5 Professionalism in repairing low or medium pressure pipes</li> <li>6.5 Professionalism in repairing low or medium pressure pipes</li> <li>6.5 Professionalism in repairing low or medium pressure pipes</li> <li>6.5 Professionalism in repairing low or medium pressure pipes</li> <li>6.5 Professionalism in repairing low or medium pressure pipes</li> <li>6.5 Professionalism in repairing low or medium pressure pipes</li> <li>6.6 Professionalism in repairing low or medium pressure pipes</li> <li>6.7 Professionalism in repair pipes</li> <li>6.8 Professionalism in repair pipes</li> <li>6.9 Professionalism in repair pipes</li> <li>6.1 Professionalism in repair pipes</li> <li>6.2 Professionalism in repair pipes</li> <li>6.3 Professionalism in repair pipes</li> <li>6.4 Professionali</li></ul>
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are:
	(i) Capable to install, inspect and repair low or medium pressure pipe systems;
	(ii) Capable to correctly arrange and install measuring instruments to correctly measure, record data and adjust various axial alignment to required standard; and
	<ul> <li>(iii) Capable to compile installation and examination reports and clearly describe the operational status of various types of pipe systems.</li> </ul>
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic techniques of installing, disassembling and repairing pipes.