

1. Title	Test diesel engines									
2. Code	EMSRLT304A									
3. Range	Use common or tailor-made mechanical tools to test low or medium speed diesel engines e.g. diesel engines below 1800kW (or 2400BHP), at repair workshops or locations with diesel engines according to test instructions and standards.									
4. Level	3									
5. Credit	3									
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <table border="0"> <tr> <td style="vertical-align: top;">6.1</td> <td style="vertical-align: top;">Structure and basic principles of diesel engine</td> <td style="vertical-align: top;">◆ Understand the structure and basic working principles of various equipment systems of a diesel engine</td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Methods and procedures of testing diesel engines</td> <td style="vertical-align: top;">◆ Test various systems and components of a diesel engine according to test instructions and standards ◆ Test the overall performance of a diesel engine ◆ Use common and tailor-made mechanical tools and inspection instruments effectively</td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in testing diesel engines</td> <td style="vertical-align: top;">◆ Perform general tests on diesel engines independently according to test instructions and standards ◆ Understand the legal requirements on work safety and the code of practice when performing tests on diesel engines</td> </tr> </table>	6.1	Structure and basic principles of diesel engine	◆ Understand the structure and basic working principles of various equipment systems of a diesel engine	6.2	Methods and procedures of testing diesel engines	◆ Test various systems and components of a diesel engine according to test instructions and standards ◆ Test the overall performance of a diesel engine ◆ Use common and tailor-made mechanical tools and inspection instruments effectively	6.3	Professionalism in testing diesel engines	◆ Perform general tests on diesel engines independently according to test instructions and standards ◆ Understand the legal requirements on work safety and the code of practice when performing tests on diesel engines
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7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to test the core systems of a diesel engine effectively and correctly according to test instruction standards.</p>									
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of repairing mechanical equipment (such as EMSRRM101A “Repairs of marine engineering equipment and machines” and EMSRRM208A “Repair diesel engines”).									