

1. Title	Repair faults in diesel engines
2. Code	EMCUOR308A
3. Range	Repair the faults in diesel engines at servicing stations or external sites.
4. Level	3
5. Credits	9
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Structure and working principles of diesel engine</p> <ul style="list-style-type: none"> <li>◆ Understand the structure and working principles of diesel engine</li> </ul> <p>6.2 Find and repair faults in diesel engines</p> <ul style="list-style-type: none"> <li>◆ Repair the fault in diesel engine <ul style="list-style-type: none"> <li>• Check the diesel engine and its control equipment, including the following equipment and systems, to find out the root of fault according to the signs of fault by applying the working principles of diesel engine and its control equipment: <ul style="list-style-type: none"> <li>▶ Engine cylinder and its mechanism</li> <li>▶ Fuel supply system</li> <li>▶ Fuel injector and filter</li> <li>▶ Governor</li> <li>▶ Supercharger and turbo-charger</li> <li>▶ Cooling system and equipment</li> <li>▶ Lubricating system and equipment</li> <li>▶ Initial acceleration mechanical protection</li> </ul> </li> <li>• Repair the fault after finding out the fault equipment or component</li> </ul> </li> </ul> <p>6.3 Professionalism in repairing diesel engines</p> <ul style="list-style-type: none"> <li>◆ Repair the diesel engine according to the safety regulations and code of practice</li> <li>◆ Write a simple repair report according to the damage of the diesel engine</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to find out the fault in the diesel engine within a reasonable period of time according to the symptoms of fault;</p> <p>(ii) Capable to handle and eliminate effectively the fault in the diesel engine; and</p> <p>(iii) Capable to write simple repair reports.</p>
8. Remarks	<p>This unit of competency is suitable for training electrical and mechanical engineering personnel involving in the work of diesel engine. The credit value of this unit of competency is set on the presumption that the person already possesses basic competency of repairing diesel engines.</p>