

## SELF ASSESSMENT GUIDE

<b>QUALIFICATION:</b>	<b>Diesel Power Plant Maintenance NC III</b>	
<b>Certificate of Competency 1:</b>	<b>PERFORMING OVERHAULING OF DIESEL ENGINE</b>	
<b>Units of Competency Covered:</b>	<b>OVERHAUL DIESEL ENGINE</b>	
Instruction <ul style="list-style-type: none"> <li>• Read each of the questions in the left-hand column of the chart.</li> <li>• Place a check on each question to indicate your answer.</li> </ul>		
<b>Can I?</b>	<b>YES</b>	<b>NO</b>
<ul style="list-style-type: none"> <li>• Disassemble engine block and sub-assemblies without causing damage to any component or system in accordance with manufacturer's manual. *</li> </ul>		
<ul style="list-style-type: none"> <li>• Ensure components or system to be free from dirt, grease, rust and other foreign materials in preparation for the inspection and testing.*</li> </ul>		
<ul style="list-style-type: none"> <li>• Mark and arrange disassembled components according to prescribed arrangements.</li> </ul>		
<ul style="list-style-type: none"> <li>• Carry out all disassembling and cleaning activities according to industry regulations or guidelines and occupational health and safety procedures *</li> </ul>		
<ul style="list-style-type: none"> <li>• Test and measure components and systems using prescribed method and without causing damage to any component or system</li> </ul>		
<ul style="list-style-type: none"> <li>• Service and calibrate fuel injector in accordance with the manufacturer's instruction manual</li> </ul>		
<ul style="list-style-type: none"> <li>• Assess result of testing and measurement using manufacturer specifications *</li> </ul>		
<ul style="list-style-type: none"> <li>• Identify and report repair or replacement requirements according to enterprise policy and procedure</li> </ul>		
<ul style="list-style-type: none"> <li>• Complete and dealt with pre-repair inspection report with relevant to the assessment outcome</li> </ul>		
<ul style="list-style-type: none"> <li>• Carry out required component repair or replacements in accordance with manufacturer's recommendations</li> </ul>		
<ul style="list-style-type: none"> <li>• Check component measurements in accordance with manufacturer's specification</li> </ul>		
<ul style="list-style-type: none"> <li>• Rectify faults in measurements in accordance with manufacture's specification</li> </ul>		

<ul style="list-style-type: none"> <li>Assemble engine block and sub assemblies following manufacturers manual and without damage to the components or workplace property. *</li> </ul>		
<ul style="list-style-type: none"> <li>Perform pre-testing activities following system normal operating procedure</li> </ul>		
<ul style="list-style-type: none"> <li>Check engines performance for normal operation using different testing methods in accordance with manufacturer's manual and without causing damage to the workplace property *</li> </ul>		
<ul style="list-style-type: none"> <li>Remedy faults in engine operation following manufacturer's manual.</li> </ul>		
<ul style="list-style-type: none"> <li>Prepare overhaul report according enterprise policy. *</li> </ul>		
<p><b>I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.</b></p>		
<p><b>Candidate's Name:</b></p>	<p><b>Date:</b></p>	

**NOTE: \*Critical aspects of competency**

## SELF ASSESSMENT GUIDE

<b>QUALIFICATION:</b>	<b>Diesel Power Plant Maintenance NC III</b>	
<b>Certificate of Competency 2:</b>	<b>SERVICING ALTERNATOR/GENERATOR</b>	
<b>Units of Competency Covered:</b>	<b>Service Alternator/Generator</b>	
<p>Instruction</p> <ul style="list-style-type: none"> <li>• Read each of the questions in the left-hand column of the chart.</li> <li>• Place a check on each question to indicate your answer.</li> </ul>		
<b>Can I?</b>	<b>YES</b>	<b>NO</b>
• Lock open and tagged-out main circuit breaker as per enterprise policy		
• Disconnect and properly mark terminals without damaging other components		
• Disassemble alternator without damaging other components *		
• Take baseline data using prescribed methods		
• Clean components in preparation for the inspection & testing		
• Carry out all disassembling and cleaning activities according to manufacturers recommendations and occupational health and safety procedures		
• Prepare service report in accordance with enterprise policy		
• Test and assess components using prescribed methods and without causing damage to any component *		
• Identify and report repair / replacement requirements according to enterprise policy and procedure		
• Carry out required component repair or replacements in accordance with manufacturer's recommendations and specification *		
• Record repaired or replaced component's data in accordance with enterprise policy		
• Assemble alternator following manufacturers manual and without damage to the components or workplace property *		

• Couple alternator to the engine according to manufacturer's instruction		
• Perform alignment of the alternator to the diesel engine following manufacturer's instruction		
• Carry out testing methods in accordance with manufacturer's manual and without causing damage to components or workplace property *		
• Remedy faults in alternator operation following manufacturer's manual		
• Finalize service report according to enterprise policy *		
<b>I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.</b>		
<b>Candidate's Name:</b>	<b>Date:</b>	

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QUALIFICATION:	<b>Diesel Power Plant Maintenance NC III</b>		
Certificate of Competency 3:	<b>DIAGNOSE AND REPAIR DIESEL ENGINE</b>		
Units of Competency Covered:	<b>Diagnose and Repair Diesel Engine</b>		
Instruction <ul style="list-style-type: none"> <li>• Read each of the questions in the left-hand column of the chart.</li> <li>• Place a check on each question to indicate your answer.</li> </ul>			
<b>Can I?</b>	<b>YES</b>	<b>NO</b>	
• Identify work requirements from relevant personnel and documentations.			
• Carry out service prerequisite in accordance with enterprise policy.			
• Prepare and identify required resources base on enterprise policy and on-site validation report *			
• Implement 5S and safety practices in accordance with the enterprise policy.			
• Identify engine defects or defective components through systematic and logical method of isolation and testing without causing damage to the engine and other workplace property *			
• Perform root cause analysis using data gather and without causing damage to engine and other workplace property *			
• Carry out repair or replacement of defective components in accordance with the results of troubleshooting and root cause analysis and manufactures instruction *			
• Perform pre-testing activity following system normal operating procedures *			
• Carry out testing methods in accordance with manufactures manual and without causing damage to components or workplace property.			
• Correct faults in engine operation following manufacturer's manual *			
• Prepareys service report according to enterprise policy*			
<b>I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.</b>			
Candidate's Name:		Date:	

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<b>QUALIFICATION:</b>	<b>Diesel Power Plant Maintenance NC III</b>	
<b>Certificate of Competency 4:</b>	<b>DIAGNOSING AND REPAIRING DPP ELECTRICAL SYSTEMS</b>	
<b>Units of Competency Covered:</b>	<b>Diagnose and Repair Electrical System</b>	
Instruction <ul style="list-style-type: none"> <li>• Read each of the questions in the left-hand column of the chart.</li> <li>• Place a check on each question to indicate your answer.</li> </ul>		
<b>Can I?</b>	<b>YES</b>	<b>NO</b>
<ul style="list-style-type: none"> <li>• Identify work requirements from relevant personnel and documentation.</li> </ul>		
<ul style="list-style-type: none"> <li>• Carry out service prerequisites in accordance with enterprise policy.</li> </ul>		
<ul style="list-style-type: none"> <li>• Identify and prepares required resources based on enterprise policy and on-site validation report.</li> </ul>		
<ul style="list-style-type: none"> <li>• Implement 5s and safety practices in accordance with the enterprise policy</li> </ul>		
<ul style="list-style-type: none"> <li>• *Identify electrical system defects or defective components through systematic and logical method of isolation and testing without causing damage to the electrical system and other workplace property.</li> </ul>		
<ul style="list-style-type: none"> <li>• *Perform root cause analysis using data gathered and without causing damage to electrical components and other workplace property.</li> </ul>		
<ul style="list-style-type: none"> <li>• *Carry out repair or replacement of defective components in accordance with the result of troubleshooting and root cause analysis and manufacturers instruction.</li> </ul>		
<ul style="list-style-type: none"> <li>• Identify and reports repair requiring outside services in accordance with enterprise policy.</li> </ul>		
<ul style="list-style-type: none"> <li>• Perform pre-testing activities following system normal operating procedure.</li> </ul>		
<ul style="list-style-type: none"> <li>• *Carry out testing methods in accordance with manufacturer’s manual and without causing damage to components or workplace property.</li> </ul>		

<ul style="list-style-type: none"> <li>• Correct faults in electrical system operation following manufacturer's manual.</li> </ul>		
<ul style="list-style-type: none"> <li>• Prepare service report according enterprise policy</li> </ul>		
<p><b>I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.</b></p>		
<p><b>Candidate's Name:</b></p>	<p><b>Date:</b></p>	

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