

## SELF-ASSESSMENT GUIDE

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| <b>QUALIFICATION:</b>  | <b>DIESEL POWER PLANT OPERATIONS AND MAINTENANCE NC II</b> |           |              |
| <b>Certificate of Competency 1:</b>  | <b>TEND 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>Perform walk around check of plant system in accordance with enterprise procedure.</li> </ul>   |  |           |              |
| <ul style="list-style-type: none"> <li>Refill/top-up fluid deficiencies in accordance with enterprise policy.</li> </ul>   |  |           |              |
| <ul style="list-style-type: none"> <li>Identify and correct non-fluid deficiencies in accordance with enterprise policy.</li> </ul>  |  |           |              |
| <ul style="list-style-type: none"> <li>Check and record result of walk around and report to shift in charge.</li> </ul>  |  |           |              |
| <ul style="list-style-type: none"> <li>Monitor engine running condition for normal operation based on indicating parameters.</li> </ul>  |  |           |              |
| <ul style="list-style-type: none"> <li>Perform routine check during operation in accordance with equipment checklist.</li> </ul>   |  |           |              |
| <ul style="list-style-type: none"> <li>Record unit abnormalities and report to shift in charge.</li> </ul>   |  |           |              |
| <ul style="list-style-type: none"> <li>Coordinate shutdown procedure with the control operator in accordance with enterprise policy.</li> </ul>  |  |           |              |
| <ul style="list-style-type: none"> <li>Engage emergency stop button in accordance with the operation s manual.</li> </ul>  |  |           |              |
| <ul style="list-style-type: none"> <li>Record daily operation and report in accordance with the enterprise policy.</li> </ul>  |  |           |              |
| 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 and Signature:</b>   |  |           | <b>Date:</b> |

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| <b>QUALIFICATION:</b>   | <b>DIESEL POWER PLANT OPERATIONS AND MAINTENANCE NC II</b>     |           |  |
| <b>Certificate of Competency 2:</b>   | <b>MINTAIN AND REPAIR DIESEL ENGINE SYSTEMS AND ALTERNATOR</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> |  |
| • Maintain turbocharger based on PMS*   |  |           |  |
| • Clean or replace air filter as indicated by air restriction indicator.  |  |           |  |
| • Clean air filter casing and freed of dust or foreign particles as cleaning or replacement of filter occurs.   |  |           |  |
| • Perform change oil according to PMS.  |  |           |  |
| • Perform cleaning of lube oil system according to PMS  |  |           |  |
| • Install and uninstall oil cooler assembly in accordance with the manufacturer's instruction.  |  |           |  |
| • Disassemble/assemble oil cooler assembly without causing damage to the fins, oil cooler tubes and oil seals (o-ring) and in accordance with manufacturer's instruction*                           |  |           |  |
| • Clean oil cooler tubes and freed of scale or restrictions.  |  |           |  |
| • Check cooling system for leaks visually.  |  |           |  |
| • Service radiator following enterprise policy*   |  |           |  |
| • Check thermostat in accordance with its operating temperature.  |  |           |  |
| • Replace or repair system components based on test result.   |  |           |  |
| • Refill coolant in accordance to the manufacturer's instruction  |  |           |  |

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| • Maintain coolant pump in accordance with PMS*  |              |  |
| • Replace fuel filter in accordance with manufacturer's instruction and PMS.   |              |  |
| • Drain fuel oil/water separator to ensure that the system is free from foreign elements.  |              |  |
| • Recommend servicing and calibration of fuel injector in accordance with PMS and enterprises policy*  |              |  |
| • Remedy and restore loose connections to normal conditions in accordance with manufacturer's instructions   |              |  |
| • Check insulation and winding resistance in accordance with manufacturer's manual.  |              |  |
| • Check revolving diodes and bridge rectifiers in accordance with manufacturer's manual  |              |  |
| • Test AVR functionality based on enterprise policy  |              |  |
| • Check air gap clearances in accordance with manufacturer's manual  |              |  |
| • Prepare and submit service report in accordance with enterprise policy   |              |  |
| 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 and Signature:</b>   | <b>Date:</b> |  |