SELF - ASSESSMENT GUIDE

<table>
<thead>
<tr>
<th>Qualification:</th>
<th>LAND-BASED TRANSPORT REFRIGERATION SERVICING NC II</th>
</tr>
</thead>
</table>
| Unit of Competency covered: | - Service and maintain transport refrigeration units  
- Troubleshoot and repair mobile transport refrigeration systems  
- Perform testing and commissioning for transport refrigeration units |

Instruction:
- Read each of the questions in the left-hand column of the chart.
- Place a check in the appropriate box opposite each question to indicate your answer.

<table>
<thead>
<tr>
<th>Can I?</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
</table>

Service and maintain transport refrigeration units

- Prepare, check and interpret manufacturer’s manual, schematic diagrams and work instructions
- Perform refrigerant containment through pump down following SOP*
- Perform refrigerant containment through recovery/recycling following SOP*
- Dismantle blower and condenser assembly as per SOP*
- Use environment friendly flushing agent in cleaning evaporator/condenser tubing as per Code of Practice
- Service compressor assembly, pulley and belt
- Use proper instrument in checking power supply and diagnosing electrical control system*
- Tighten and reports loose connections/wirings in line with SOP*
- Use personal protective equipment as per job required
- Accomplish service report*
- Perform housekeeping

Troubleshoot and repair transport refrigeration systems

- Plan and prepare for troubleshooting and repair*
- Identify and repair faults/troubles based on findings*
- Diagnose faults/problems with components in line manufacturer’s manual or RAC Code of Practice
- Report all defects and problems encountered in line with enterprise policies and procedures
- Take remedial action to overcome faults/problems in line with the manufacturer’s manual or RAC Code of Practice
- Install and remove gauge manifold with less emission of refrigerants*
- Use nitrogen with nitrogen regulator for flushing and pressure testing of refrigeration system*
- Release nitrogen to the surrounding causing no harm to the anyone*
- Observe safe working practices throughout the tasks as per enterprise procedure*
- Perform optimum recovery of refrigerant in line with RAC Code Practice*
- Perform retrofitting based on RAC Code of Practice*
- Perform conversion based on RAC Code of Practice*
- Complete report on testing procedure, including faults and minor repair in line with manufacturer’s manual or RAC Code of Practice
- Perform housekeeping*

**Perform testing and commissioning for transport refrigeration units**

- Test run repaired unit*
- Perform electrical related checks based on manufacturer’s manual
- Perform refrigerant piping and fitting connection related checks based on manufacturer’s manual
- Perform compressor unit related checks based on manufacturer’s manual
- Accomplish start-up, testing and commissioning reports in line with enterprise policies and procedures*
- Perform housekeeping*

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.

| Candidate’s Name & signature: | Date: |