

SELF-ASSESSMENT GUIDE

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| Qualification: | TRANSPORT RAC SERVICING NC II | | |
| Project: | Troubleshoot and Repair Transport Air-Conditioning and Refrigeration Systems | | |
| <p>Instructions:</p> <ul style="list-style-type: none"> • Read each of the questions in the left-hand column of the chart. • Place a check on each question to indicate your answer. | | | |
| Can I? | YES | NO | |
| • Interpret plans and details and prepare for troubleshooting and repairing* | | | |
| • Prepare/select tools, instruments, materials, PPE and equipment in line with job requirements* | | | |
| • Troubleshoot transport air-conditioning* | | | |
| • Troubleshoot transport refrigeration* | | | |
| • Repair transport air-conditioning* | | | |
| • Repair transport refrigeration* | | | |
| • Demonstrate compliance with safety regulations* | | | |
| • Identify faults and problems and makes necessary actions to rectify* | | | |
| • Test units for operation in accordance with manufacturer's SOPs* | | | |
| • Re-install units in accordance with SOPs* | | | |
| • Document work accomplished* | | | |
| • Maintain tools and equipment* | | | |
| • Perform housekeeping and keeps worksite in safe condition* | | | |
| Candidate's Name: | Date: | | |

*NOTE: Critical Aspects of Competency

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| Qualification: | TRANSPORT RAC SERVICING NC II | |
| Certificate of Competency 1: | INSTALL TRANSPORT AIR-CONDITIONING AND REFRIGERATION UNITS | |
| Unit of Competency Covered: | <ul style="list-style-type: none"> • Install transport air-conditioning and refrigeration units • Perform testing and commissioning for transport air-conditioning and refrigeration | |
| <p>Instructions: Read each of the questions in the left-hand column of the chart. Place a check on each question to indicate your answer.</p> | | |
| Can I? | YES | NO |
| • Read and interpret work instructions | | |
| • Make arrangements for the installation | | |
| • Select and prepare tools, equipment and materials/PPE | | |
| • Identify and check components of air-conditioning and refrigeration system | | |
| • Position, secure and install transport air-conditioning and refrigeration system components | | |
| • Check systems and components for leaks | | |
| • Charge components and systems | | |
| • Test transport air-conditioning and refrigeration systems for operation | | |
| • Employ safe manual handling techniques | | |
| • Demonstrate compliance with safety regulations | | |
| • Identify faults and problems and make necessary action to rectify | | |
| • Clean worksite and keeps in safe state | | |
| • Communicate interactively with others | | |
| • Know measurement and mathematical calculation | | |
| • Know brazing and arc welding work | | |
| • Know different types and parts/components of transport air-conditioning and refrigeration system | | |
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| Qualification: | TRANSPORT RAC SERVICING NC II | | |
| Certificate of Competency 2: | Service and Maintain Transport Air-Conditioning and Refrigeration Units | | |
| Instructions: Read each of the questions in the left-hand column of the chart. Place a check on each question to indicate your answer. | | | |
| Can I? | YES | NO | |
| • Check and maintain the components/parts of the air-conditioning and refrigeration system | | | |
| • Check and maintain the lubrication system | | | |
| • Check and maintain the refrigerant system | | | |
| • Check and maintain secondary heat transfer | | | |
| • Check and maintain the air distribution system | | | |
| • Check and maintain the electrical system | | | |
| • Conduct test on transport air-conditioning and refrigeration system for operation | | | |
| • Demonstrate compliance with safety regulations | | | |
| • Select and prepare tools, equipment and wiring devices | | | |
| • Identify faults and problems and make necessary action to rectify | | | |
| • Communicate interactive with others | | | |
| • Identify the different parts and components of a transport refrigeration and air-conditioning system | | | |
| • Know the properties and characteristics of the different refrigerants | | | |
| • Know the properties and characteristics of air | | | |
| • Identify the different PPE and OHS requirements | | | |
| • Interpret the legal aspects of handling refrigerant gases | | | |
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| Qualification: | TRANSPORT RAC SERVICING NC II | | |
| Certificate of Competency 3: | Troubleshoot Transport Air-Conditioning and Refrigeration Units | | |
| Instructions: Read each of the questions in the left-hand column of the chart. Place a check on each question to indicate your answer. | | | |
| Can I? | YES | NO | |
| • Interpret plans and details and prepare for troubleshooting | | | |
| • Select appropriate wiring diagrams, charts and manuals | | | |
| • Select appropriate materials, tools, equipment and PPE | | | |
| • Observe proper handling of tools and equipment | | | |
| • Check power supply and name plate rating of equipment | | | |
| • Test electrical and mechanical controls and its components/ accessories | | | |
| • Perform leak test as per SOPs | | | |
| • Identify and rectify faults/troubles in line with SOPs | | | |
| • Test unit for short circuits and grounds | | | |
| • Prepare reports on troubleshooting activities and testing of unit | | | |
| • Demonstrate compliance with safety regulations | | | |
| • Communicate effectively with others | | | |
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| Qualification: | TRANSPORT RAC SERVICING NC II | | |
| Certificate of Competency 4: | Recover and Recycle Refrigerant in Transport Air-Conditioning and Refrigeration Units | | |
| Instructions: Read each of the questions in the left-hand column of the chart. Place a check on each question to indicate your answer. | | | |
| Can I? | YES | NO | |
| <ul style="list-style-type: none"> Assess unit and gather relevant data on unit where refrigerant is to be recovered/ recycled | | | |
| <ul style="list-style-type: none"> Determine appropriation of unit | | | |
| <ul style="list-style-type: none"> Gather, check and set-up equipment, instrument, tools and accessories | | | |
| <ul style="list-style-type: none"> Perform refrigerant recycling | | | |
| <ul style="list-style-type: none"> Achieve optimum refrigerant recovery | | | |
| <ul style="list-style-type: none"> Remove contaminants from the system | | | |
| <ul style="list-style-type: none"> Identify and label recovered refrigerant in cylinders | | | |
| <ul style="list-style-type: none"> Operate and maintain recover/recycling machine | | | |
| <ul style="list-style-type: none"> Observe safety measures and regulations | | | |
| <ul style="list-style-type: none"> Demonstrate compliance with safety regulations | | | |
| <ul style="list-style-type: none"> Identify and rectify faults and problems | | | |
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| Qualification: | TRANSPORT RAC SERVICING NC II | | |
| Certificate of Competency 5: | Repair and Retrofit Transport Air-Conditioning and Refrigeration and Its Accessories | | |
| Instructions: Read each of the questions in the left-hand column of the chart. Place a check on each question to indicate your answer. | | | |
| Can I? | YES | NO | |
| <ul style="list-style-type: none"> Assess unit and gather relevant data on unit where refrigerant is to be recovered/ recycled | | | |
| <ul style="list-style-type: none"> Determine appropriation of unit | | | |
| <ul style="list-style-type: none"> Gather, check and set-up equipment, instrument, tools and accessories | | | |
| <ul style="list-style-type: none"> Perform refrigerant recycling | | | |
| <ul style="list-style-type: none"> Achieve optimum refrigerant recovery | | | |
| <ul style="list-style-type: none"> Remove contaminants from the system | | | |
| Identify and label recovered refrigerant in cylinders | | | |
| <ul style="list-style-type: none"> Operate and maintain recover/recycling machine | | | |
| <ul style="list-style-type: none"> Observe safety measures and regulations | | | |
| <ul style="list-style-type: none"> Demonstrate compliance with safety regulations | | | |
| <ul style="list-style-type: none"> Identify and rectify faults and problems | | | |
| Candidate's Name: | Date: | | |