Reference. No.																
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SELF - ASSESSMENT GUIDE

Qualification:	LAND-BASED TRANSPORT MOBILE AIR-CONDITIONING SERVICING NC II						
Unit of Competency covered:	 Service and maintain mobile air-conditioning units Troubleshoot and repair mobile air-conditioning systems Perform start-up, test and commissioning for mobile air-conditioning systems 						

Instruction:

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

Can I?	YES	NO				
Clean and replace air filter						
 Identify and remove air filter following standard operating procedures (SOPs) 						
Check air filter for damage and replaced if required in line with SOPs						
Clean air filter using the correct tools and cleaning procedures						
Replace air filter in accordance with filter specifications						
Service evaporator/ condenser assembly						
 Select tools in dismantling the evaporator/ condenser as per standard operating procedures (SOPs) 						
 Pull out and disassemble evaporator/condenser as per manufacturer's service manual * 						
 Use high pressure washer and compressed air in cleaning evaporator/condensing coil based on established enterprise procedures * 						
 Straighten evaporator/condenser coil fins in accordance with service procedure * 						
 Use cleaning agent or non-corrosive chemical in cleaning and maintaining evaporator/ condensing coil, fins and other body accessories as per standard operating procedures (SOPs) * 						
 Maintain condenser fan motor and evaporator blower assembly as per standard operating procedures* 						
 Flush evaporator/condenser assembly using updated environment friendly flushing solution and oxygen-free nitrogen (OFN) as per manufacturer's service manual* 						
Assemble evaporator/condenser as per manufacturer's service manual* Condenser Co						

Perform leak testing, evacuation and charging
Perform leak testing as per manufacturer's service manual *
Perform evacuation following SOP *
Perform charging following SOP *
Check operating parameters following SOP *
Service compressor assembly, pulley and belt
Service magnetic clutch in line with manufacturer's instruction*
Maintain alignment of compressor, pulley and belt tension in line with SOP*
Check compressor parameters in line with manufacturers service manual *
Check belt for damaged and replaced if necessary, as manufacturer's service manual *
Service loose tube and hose fittings in line with manufacturer's instruction *
Service electrical power and control circuits
Use proper instrument in checking power supply and diagnosing electrical control system *
Check, repairs and reports loose connections/ wirings in line with SOP *
Check fuse and terminal sockets in line with SOP *
Service electrical controls in line with SOP *
Check motor controls for train system in line with manufacturer's specifications *
Check grounding in line with SOP *
Accomplish service and maintenance report
Report all defects and problems encountered in line with enterprise policies and procedures.
Report observation and recommendation in line with enterprise policies and procedures.
Plan and prepare for troubleshooting and repair
Interpret appropriate wiring diagrams, charts and manuals in line with the job requirements *
Select appropriate materials, tools and equipment based on job requirements *

Observe work safety during preparation according to established operating standards *		
Identify and repair faults/ troubles		
Select and use appropriate PPE in line with job requirements *		
Test components following manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy *		
Diagnose faults/problems with components in line with manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy *		
Take remedial action to overcome faults/problems in line manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy *		
Completes work safely in line with workplace safety guidelines*		
Complete report on testing procedure, including faults and minor repair, in line with manufacturer's manual, RAC Code of Practice and/or enterprise troubleshooting policy *		
Perform refrigerant recovery/ recycling on mobile air-conditioning	រូ unit	
 Observe safe working practices throughout the task as per enterprise procedure * 		
• Select and use suitable tools and equipment based on job requirement *		
 Perform optimum recovery of refrigerant in line with RAC Code of Practice * 		
 Perform refrigerants recovery/recycling according to manufacturer's recommendations and RAC Code of Practice * 		
Test-run repaired unit		
Test unit in line with troubleshooting/repair procedures *		
Check and measure operating parameters in line with manufacturer's testing procedures *		
 Prepare report on repair and testing of unit in line with enterprise procedures * 		
Prepare for start-up, test and commissioning of MAC unit		
Read and interpret work instructions to determine job requirements		
Select tools and equipment in accordance with job requirements		
Complete and comply pre-start-up, testing and commissioning checks with manufacturer's manuals*		
Perform commissioning method and program and prepares recording sheets in accordance with manufacturer's manuals*		
Select PPEs in line with job requirements		

Conduct start-up, test and commissioning of MAC unit						
 Perform electrical related checks based on manufact manuals* 	turer's					
 Perform refrigerant piping and fitting connection related of based on manufacturer's manuals* 	checks					
 Perform compressor assembly related checks based on manufacturer's manuals* 						
 Perform temperature and airflow check based on manufac manual* 	turer's					
 Perform control panel related checks based on manufact manuals and site conditions* 	turer's					
 Check system operating pressure and temperature in accor with manufacturer's manual* 	dance					
 Accomplish start-up, testing and commissioning reports in lir enterprise policies and procedures* 	ne with					
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 and Signature	Date					

NOTE: *Critical aspects of competency