

071306T4RAC

REFRIGERATION AND AIR CONDITIONING TECHNICIAN LEVEL 6

ENG/OS/RAC/CR/07/6/B

Maintain RAC Control Systems

Nov/Dec 2024



TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION

COUNC

DACC)

PRACTI

SMENT

INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

OBSERVATION CHECKLIST

Candidate Registration No:			
Assessor's Name:			
Assessor's Registration Name:			
Venue of Assessment:			
Item to be evaluated: Please award marks as appropriate. Give brief comment on your observation.	Maximum marks	Candidate Score	Remarks
TASK 1: Diagnose the fan motor protection system of a split air conditioning unit;			
1.wore PPE'S as per SOPs ● Apron/dust coats ● Safety boots ● Gloves	01 01		
2. Handled tools and equipment as per workshop procedure. (Award 1 marks or zero)			
3.Diagnosed the fan motor problems • Checked electrical connections. • Replaced/ refurbished worn parts • Checked windings continuity • Checked bearing condition • Checked capacitors condition. • Serviced starter and run motor starters.	01 01 01 01 01 01 06		
TASK 2; Service and repair the fan motor system			
4. Maintained motor protection systems			

● Identified of the correct motor protection systems ● Checked external motor protection and maintained ● Checked internal motor protection and maintained	01		
	01		
	01		
	03		
5. Tested electronic controls			
● Identified electronic control diagrams ● Interpreted electronic control diagrams ● Tested electronic control timers ● Tested electronic relay component	01		
	01		
	01		
7. Un-mounted the fan blades			
● Pulled out the condenser fan blade ● Pulled the top part of fan blades upward and remove fan blades	01		
	01		
	02		

8. Removed the fan motor ● Removed the nuts and the failed motor ● Flipped the top over to expose the motor. ● Remove the motor. 9. Fastened down the fan ● Tightened the screw ● Connected wire in the motor ● encased the connected wires	01 01 01 01 01 01 01 06		
10. Performed a final inspection ● The blades clearance to other parts ● Wiring correctly done ● The blades spin freely ● Appropriate weep/drainage ports have been removed ● The blades should be at an appropriate height in the shroud ● The top is securely mounted and fastened ● The rotation wires have been Insulated and fastened securely	01 01 01 01 01 01		

	07		
TASK 3: Tests run the serviced unit.			
11. Run tested the unit			
● checked the voltage and amperage	01		
● commissioned the condenser	01		
	02		
12. Performed housekeeping	01		
● Cleaned the work station			
● Cleaned the tools and equipment	01		
● Cleaned the condenser system			
● Dispersed any waste as per workshop policy			
TOTAL	38		
ASSESSMENT OUT COME			
The candidate was found to be: Competent ☐ Not yet competent ☐ <i>(Please tick as appropriate)</i> <i>(The candidate is competent if he/she gets 50 % and above)</i>			
Feedback from candidate:			

Feedback to candidate:	
Candidate's Signature	Date
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Assessor's Signature	Date
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