

071305T4RAC

REFRIGERATION AND AIR CONDITIONING LEVEL 5

ENG/OS/RAC/CR/03/5/B

Install air conditioning Units

Nov/Dec 2024



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

ASSESSORS CHECKLIST

INSTRUCTIONS TO THE ASSESSOR

1. You are required to mark the practical tasks performed by the candidate.
2. You are required to take video clips at critical points.
3. Ensure the candidate has an identification tag pinned at the back and front near the shoulders showing candidate's name and registration code.

OBSERVATION CHECKLIST

Candidate's name			
Registration Code			
Assessor's name			
Registration code			
Venue of Assessment			
Date of assessment			
Items to be evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks available	Marks obtained	Comments
1. Adhered to safety procedures - Wore dust coat/overall - Wore safety boot or closed shoes, - Safe use of tools and equipment, - Wore gloves	1 1 1 1		
	04		
2. Performed refrigerant recovery accor workplace procedure - Switched off the air conditioner - Setup the unit for recovery - Connected the equipment - Purged the hose pipes - Monitored the recovery (Award marks as indicated on each item or zero)	1 2 4 2 2		
	11		
3. Disconnected the oldline sets - Measured the copper tubes between the indoor and outdoor units - Prepared the tubes (cut and deburr) - Flared the line sets/tubes	3 2 4		
	09		

4. installed the tubes (line set) • Connected the flare nuts on tubes • Connected the tubes to indoor and outdoor • Tightened the tubes using adjustable spanner (Award marks as indicated on each item or zero)	2 3 3 08		
5. Performed pressure testing on the system • Set up the system for pressure testing • Adjusted the regulator to a pressure of 150 psi • Carried out pressure testing (Award marks as indicated on each item or zero)	4 3 1 08		
6. Performed leak testing as per the workplace procedure. • Set up equipment for leak test • Applied testing pressure (150 ps • Applied foam/soapy solution • Disconnected OFDN cylinder (Award marks as indicated on each item or zero)	3 2 2 3 10		
7. Performed evacuation as per the workplace procedure • Connected evacuation equipment to the system. • Evacuated to correct pressure. (below atmospheric pressure) 20 micron (Award marks as indicated on each item or zero)	4 4 08		
8. Connected the electrical cables back to the block panel (Award 2 marks or zero)	02		
9. Checked electrical connection from the main power supply (Award one mark or zero)	01		

10. Charged the system according to the specified type of refrigerant.			
• Setup the system for charging	3		
• Connected the equipment correctly	2		
• Purged the hose pipes	3		
• Charged the (correct amount; superheat; condenser and evaporator temperatures)	6		
(Award marks as indicated on each item or zero)	14		
11. Performed housekeeping as per the workplace procedure			
(Award 3 marks or zero)	03		
12. Prepared report in line with workplace procedure			
	04		
TOTAL	82		
ASSESSMENT OUTCOME			
The candidate was found to be: Competent ☐ yet competent ☐ (Please tick as appropriate) (The candidate is competent if the candidate obtains at least 50%)			
Feedback from candidate: 			
Feedback to candidate: 			
Candidate's Signature -----		Date -----	
Assessor's Signature -----		Date -----	