

071305T4RAC

REFRIGERATION AND AIR CONDITIONING - LEVEL 5

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

INSTALL AIR CONDITIONING UNITS

March/April 2025



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

ASSES LIST

INSTRUCTIONS TO THE ASSESSOR

1. You are required to mark the practical as the candidate performs the tasks.
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			
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 - Safe use of tools and equipment, - Handled chemicals correctly	1 1 1 1		
	4		
2. Performed refrigerant pumping down workplace procedure - Switched on the AC - Set up system for pump down - Closed the valve (discharge side) - Closed the suction valve after few minutes <i>(Award marks as indicated on each item or zero)</i>	1 2 2 2		
	09		
3. Unmounted the indoor unit from the system - Switched off the AC unit - Disconnected the line sets - Disconnected the indoor unit from wall bracket - Isolated the indoor unit - Disconnected the communication cable from the outdoor <i>(Award marks as indicated on each item or zero)</i>	1 2 2 1 1		
	07		

4. Installed the indoor unit - Secured the bracket on the wall - Mounted the indoor unit on the bracket - Connected line sets. <i>(Award marks as indicated on each item or zero)</i>	03		
	02		
	04		
	09		
5. Pressurized the unit with OFDN - Set up the unit for pressure testing - Applied testing pressure (150 psig) - Performed leak testing - Disconnected OFDN cylinder <i>(Award marks as indicated on each item or zero)</i>	4		
	3		
	3		
	2		
	12		
6. Performed evacuation on the indoor unit - Connected vacuum pump to the - Evacuated the piping and indoor pressure. (below atmospheric microns) <i>(Award marks as indicated on each item or zero)</i>	4		
	4		
	08		
7. Connected power cable and communication line <i>(Award 2 marks or zero)</i>	02		
8. Checked electrical connection from the main power supply <i>(Award one mark or zero)</i>	01		
9. Opened the valves to release refrigerant to the indoor unit (charged refrigerant) - Opened the liquid line valve - Opened the suction line valve - Switched on the AC unit - Carried out temperature setting to cooling mode <i>(Award marks as indicated on each item or zero)</i>	3		
	3		
	2		
	3		
	11		

10. Test run the installed air conditioning unit	2		
• Checked sound and vibration based on unit specifications • Handed over/commissioned the AC unit	2		
(Award marks as indicated on each item or zero)	04		
11. Performed house keeping	02		
12. Prepared installation report in line with workplace procedure	05		
TOTAL	74		
ASSESSMENT OUTCOME			
The candidate was found to be: Competent ☐ Not yet competent ☐ (Please tick as appropriate) (The candidate is competent if the candidate is at least 50%)			
Feedback from candidate: 			
Feedback to candidate: 			
Candidate's Signature _____		Date _____	
Assessor's Signature _____		Date _____	