

**071506T4MTM**

**MECHANICAL TECHNOLOGY AND MAINTENANCE TECHNICIAN LEVEL 6**

**ENG/OS/MEM/CR/06/6**

**Perform Machine/ Equipment Maintenance**

**July/August 2025**



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

*easyvet.com*

**PRACTICAL ASSESSMENT**

### **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

<b>Candidate's Name &amp; Registration Code</b>			
<b>Assessor's Name &amp; Registration Code</b>			
<b>Venue of Assessment</b>			
<b>Date of Assessment</b>			
<b>Items to be evaluated:</b> <i>Please award marks as appropriate. Give a brief comment on your observation</i>	<b>Marks Available</b>	<b>Marks Obtained</b>	<b>Comments</b>
<b>Task 1: Pump Down the Refrigerant from The Split Type Air Conditioner.</b>			
1. Wore appropriate PPE as per the job requirements <ul style="list-style-type: none"> <li>• Overall/dust coats</li> <li>• Safety boots</li> <li>• Appropriate Gloves</li> <li>• Safety goggles</li> </ul> <i>(Award marks as indicated or zero)</i>	1 1 1 1		
2. Selected the tools and equipment for the operations to be carried out <i>(Award marks as indicated or zero)</i>	2		
3. Pumped down the split air conditioning unit <ul style="list-style-type: none"> <li>• Connected the manifold gauge</li> <li>• Closed the discharge line</li> <li>• Confirmed the reading at the manifold gauge is zero (0)</li> <li>• Closed the suction line</li> <li>• Disconnected the manifold gauge</li> <li>• Powered off the unit as per the SOPs</li> </ul> <i>(Award marks as indicated or zero)</i>	2 2 2 2 2 2		
<b>Sub –Total 1</b>	<b>18</b>		

<b>HOUSEKEEPING</b>			
4. Performed housekeeping as per workplace policy			
• Cleaned the tools and equipment	2		
• Observed environmental safety	2		
• No spillage on the working area	2		
• Disposed waste properly	2		
<i>(Award marks as indicated or zero)</i>			
<b>Sub total</b>	<b>8</b>		
<b>TASK 2: REPLACE THE FILTER DRYER.</b>			
1. Wore appropriate PPE as per the job requirements			
• Overall/dust coats	1		
• Safety boots	1		
• Appropriate Gloves	1		
• Safety goggles	1		
<i>(Award marks as indicated or zero)</i>			
2. Selected the tools and equipment for the operations to be carried out	2		
<i>(Award marks as indicated or zero)</i>			
3. Replaced the filter dryer			
• Located the filter drier enclosure on the indoor unit	2		
• Turned the latch using a screw driver to open the door to the filter drier	2		
• Removed the old filter	2		
• Installed the new filter	2		
• Matched the air-flow direction arrows on the filter to the arrows on the unit	2		
• Closed the door	1		

<ul style="list-style-type: none"> <li>Latched the door using screw drivers</li> </ul> <p><i>(Award marks as indicated or zero)</i></p>	2		
<b>Sub –Total 2</b>	<b>19</b>		
<b>HOUSEKEEPING</b>			
<p>4. Performed housekeeping as per workplace policy</p> <ul style="list-style-type: none"> <li>Cleaned the tools and equipment</li> <li>Observed environmental safety</li> <li>No spillage on the working area</li> <li>Disposed waste properly</li> </ul> <p><i>(Award marks as indicated or zero)</i></p>	2 2 2 2		
<b>Sub total</b>	<b>8</b>		
<b>TASK 3: CLEAN THE CONDENSER FINS.</b>			
<p>1. Wore appropriate PPE as per the job requirements</p> <ul style="list-style-type: none"> <li>Overall/dust coats</li> <li>Safety boots</li> <li>Appropriate Gloves</li> <li>Safety goggles</li> </ul> <p><i>(Award marks as indicated or zero)</i></p>	1 1 1 1		
<p>2. Selected the tools and equipment for the operations to be carried out</p> <p><i>(Award marks as indicated or zero)</i></p>	2		
<p>3. Cleaned the condenser fins.</p> <ul style="list-style-type: none"> <li>Removed the fan cage</li> <li>Removed the fasteners by use of a screw driver /wrench</li> <li>Lifted the fan grill away from the top of the unit</li> <li>Cleaned the interior by use of a dry</li> </ul>	2 2 2		

vacuum	2		
• Removed the outer covers	2		
• Sprayed the fins using a gentle stream of dry vacuum from the inside out	2		
• Straightened bent fins using a butter knife/fin-straightening tool	2		
• Replaced the fan cage <i>(Award marks as indicated or zero)</i>	2		
<b>Sub –Total 3</b>	<b>22</b>		
<b>HOUSEKEEPING</b>			
4. Performed housekeeping as per workplace policy			
• Cleaned the tools and equipment	2		
• Observed environmental safety	2		
• No spillage on the working area	2		
• Disposed waste properly <i>(Award marks as indicated or zero)</i>	2		
<b>Sub total</b>	<b>8</b>		
<b>Task 4: Pressure Test the Unit.</b>			
1. Wore appropriate PPE as per the job requirements			
• Overall/dust coats	1		
• Safety boots	1		
• Appropriate Gloves	1		
• Safety goggles <i>(Award marks as indicated or zero)</i>	1		
2. Selected the tools and equipment for the operations to be carried out <i>(Award marks as indicated or zero)</i>	2		
3. Monitored the following parameters as			

per the manufacture's manual <ul style="list-style-type: none"> <li>• Set-up pressure testing equipment</li> <li>• Applied correct pressure</li> <li>• Checked for leakage</li> <li>• Repaired leaking section, if necessary</li> </ul> <i>(Award marks as indicated or zero)</i>	2 2 2 2		
4. Monitored performance of the system as per workplace procedures. <ul style="list-style-type: none"> <li>• Checked for vibration</li> <li>• Examined cool air from evaporator</li> <li>• Checked flow of refrigerant from sight glass.</li> <li>• Checked functionality of thermostat</li> </ul> <i>(Award marks as indicated or zero)</i>	2 2 2 2		
<b>Sub –Total 4</b>	<b>22</b>		
<b>HOUSEKEEPING</b>			
5. Performed housekeeping as per workplace policy <ul style="list-style-type: none"> <li>• Cleaned the tools and equipment</li> <li>• Observed environmental safety</li> <li>• No spillage on the working area</li> <li>• Disposed waste properly</li> </ul> <i>(Award marks as indicated or zero)</i>	2 2 2 2		
<b>Sub total</b>	<b>8</b>		
<b>TASK 5: MAINTENANCE REPORT</b>			
1. Prepared a service report in line with workplace procedures <ul style="list-style-type: none"> <li>• Title</li> <li>• Name /model number</li> <li>• Parts replaced</li> </ul>	1 1 2		

<ul style="list-style-type: none"> <li>• Recommendation</li> <li>• Monitored performance records</li> </ul> <p><i>(Award marks as indicated or zero)</i></p>	1		
	2		
<b>Sub –Total 5</b>	<b>7</b>		
<b>GRAND TOTAL</b>	<b>120</b>		
<b>CANDIDATE’S SCORE</b>	$\frac{X}{120} \times 100$		
<b>ASSESSMENT OUTCOME</b>			
<p>The candidate was found to be:</p> <p style="text-align: center;">Competent <input type="checkbox"/> Not yet Competent <input type="checkbox"/></p> <p style="text-align: center;"><i>(Please tick as appropriate)</i></p> <p style="text-align: center;"><i>(The candidate is competent if the candidate obtains at least 50%)</i></p>			
<b>Feedback from candidate:</b>			
<b>Feedback to candidate:</b>			
<b>Candidate’s Signature</b>		<b>Date</b>	
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<b>Assessor’s Signature</b>		<b>Date</b>	
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