

8



# Learning Activity Sheet for TLE

Quarter 4

Lesson

7

**Learning Activity Sheet for TLE Grade 8**  
**Quarter 4: Lesson 7 (Week 7)**  
**SY 2025-2026**

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# LEARNING ACTIVITY SHEET

<b>Learning Area:</b>	TLE 8	<b>Quarter:</b>	4
<b>Lesson No.:</b>	7	<b>Date:</b>	
<b>Lesson Title/Topic:</b>	Diagnostics and troubleshooting in Electrical-electronics services		
<b>Name:</b>		<b>Grade &amp; Section:</b>	

## I. Activity No.1: Electrical/Electronic Circuit Diagnostics Challenge (30 mins)

### II. Objective(s):

- provide students with hands-on experience in diagnosing and troubleshooting electrical circuits to identify and resolve common issues.

### III. Materials Needed:

- Worksheet
- Multi-tester
- Ballpen/Pencil and erasers

### IV. Instructions:

1. Each group will be given an installed circuit.
2. Detect and resolve the faults present in their designated circuits.
3. Utilize multimeters to determine voltage, current, and resistance at different locations within the circuit to aid in diagnosing the issue.
4. Replace parts and components that cause the problem
5. Complete the table below.

Circuit Name:		
Problem/Issues found	Solution	Remarks

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## I. Activity No.2: RAC Diagnostic and Troubleshooting Activity (30 mins)

### II. Objective(s):

- To apply refrigeration and air-conditioning techniques in diagnosing and troubleshooting common problems in RAC systems

### III. Materials Needed:

- Worksheet
- Ballpen/Pencil and erasers

### IV. Instructions:

- Each group will be given a problem to diagnose and troubleshoot.
- Read carefully each problem and analyze the information provided.
- Detect and resolve the faults present in their designated problem.
- Complete the table below.

<b>Problem 1:</b>	<b>Insufficient Cooling</b>
<b>Description:</b>	The refrigeration system is running, but the temperature inside the refrigerated space remains higher than the desired set temperature. Identify possible causes and propose troubleshooting solutions.
<b>Possible Causes:</b>	
<b>Troubleshooting Solutions</b>	

**PILOT IMPLEMENTATION OF THE MATATAG K TO 10 CURRICULUM**

<b>Problem 2:</b>	<b>Uneven Temperature Distribution</b>
<b>Description:</b>	Some areas of the room are significantly cooler or warmer than others, creating temperature variations. Identify possible causes and propose troubleshooting solutions.
<b>Possible Causes:</b>	
<b>Troubleshooting Solutions:</b>	