



**PILOT ASSESSMENT BLUEPRINT**  
**HVAC – Heating, Ventilation, and**  
**Air Conditioning (1254)**  
**Skill-Based (Performance)**

<b>Job Description</b>	<p><b>Utilize Functions of a Multimeter</b></p> <p>Participant will measure the resistance/ohms across an open/closed switch and across a load; capacitance microfarad across a dual run capacitor; DC voltage across a 9 V battery; supply voltage to a circuit; potential difference across an open/closed switch and across a load; and amperage on circuit before cleanup and evaluator notification.</p>
<b>Administration Time</b>	30 minutes
<b>Equipment, Supplies, and Materials Required</b>	<ul style="list-style-type: none"><li>• 2 incandescent light bulbs (one stand-alone for ohm testing and one on the board)</li><li>• 2 light switches (one stand-alone for ohm testing and one on the board)</li><li>• 35/5 uF capacitor</li><li>• 9 V battery</li><li>• 2 standard bulb base sockets</li><li>• 3 feet of 14-gauge black wire</li><li>• 3 feet of white wire</li><li>• Power cord with male plug on one end and stripped wires on the other to be connected to the board</li><li>• Terminal block for L1 and N wires to connect the power cord to the board</li><li>• Multimeter with VDC, VAC, ohm, uF, and amp clamp</li><li>• <b>PPE:</b><ul style="list-style-type: none"><li>○ Safety glasses</li></ul></li></ul>