

Job Description	Utilize Functions of a Multimeter 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.
Administration Time	30 minutes
Equipment, Supplies, and Materials Required	<ul style="list-style-type: none">• 2 incandescent light bulbs (one stand-alone for ohm testing and one on the board)• 2 light switches (one stand-alone for ohm testing and one on the board)• 35/5 uF capacitor• 9 V battery• 2 standard bulb base sockets• 3 feet of 14-gauge black wire• 3 feet of white wire• Power cord with male plug on one end and stripped wires on the other to be connected to the board• Terminal block for L1 and N wires to connect the power cord to the board• Multimeter with VDC, VAC, ohm, uF, and amp clamp• PPE:<ul style="list-style-type: none">○ Safety glasses