



MSHA's Accident Prevention Program Safety Tip

**SAFETY
IS A
VALUE!**

“Electrical Testing Safety”

Category : [Electrical](#)

Mine Type: [All Mines](#)

The mining industry continues to experience fatalities and serious injuries related to personnel that troubleshoot and test electrical circuits. These accidents can be prevented if these best practices are followed:

- Wear your personal protective equipment (e.g., "high-voltage" gloves, hard hats approved for electrical work, ANSI approved "EH" footwear)
- If possible, always test the meter on a low energy circuit (typically 120 volt) circuit before each use.
- Use a meter that is properly rated for the testing being conducted.
- Regardless of the voltage rating of the circuit, start at the highest voltage range of the meter and work down to the lowest.
- Select the proper function and range for the measurement.
- De-energize the circuit and discharge all capacitors before attempting in-circuit resistance measurements.
- When measuring current without a current clamp, turn the power off before connecting into the circuit.
- Hang or rest the meter if possible. Avoid holding it in your hands to minimize exposure to any hazards.



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Remember – Safety is a Value that you can LIVE with!