

# TOOLBOXTOPICS.COM

Company Name \_\_\_\_\_ Job Name \_\_\_\_\_

Date \_\_\_\_\_

## ELECTRICITY

There's a widespread but mistaken idea that 110 volts can't seriously injure or kill a person. Each of you should think about the dangers of low voltage electricity, especially if you use portable electric tools. The possibility of death from electric shock doesn't depend entirely on the voltage of the power supply. It also depends on the resistance of the human body, which varies greatly among individuals, and on the conditions under which a person is working. It takes only 1/10 of an AMP TO KILL YOU!

One cause of electric shock when using portable electric tools is the failure of the insulation between the current-carrying part and the frame of the tool. When insulation fails, fatal electric shock, severe burns, or even a fall from one level to another may result.

Electricity always tries to reach a ground potential and will always take the path of least resistance. If the outer metal shell of a defective tool becomes energized, the operator sets up a direct path through his own body between the energized tool and the ground itself. The ground can be the earth or it could be pipes or steel building structures that are in contact with the earth. Body resistance is lowered when you work in wet areas or sweat heavily; electricity can then flow easily through vital regions of the body.

When you work in a wet area, near a water pipe, grounded tank, or reinforcing rods that may be grounded, be extra careful to keep yourself as dry as possible. Stand on a wooden platform or use rubber boots. In places where tools may become wet, use only tools that are designed especially for that type of service.

Keep portable electric tools in good condition through the use of a regular inspection program. It is your responsibility to inspect your tools prior to use. Check both tools and cords and turn in any tool that needs repair as soon as you see any defect.

**THERE'S NO EXCUSE FOR UNSAFE EQUIPMENT. REMEMBER, IT ONLY TAKES 1/10 OF AN AMP TO KILL YOU!**

Safety  
Recommendations: \_\_\_\_\_

Job Specific  
Topics: \_\_\_\_\_

M.S.D.S  
Reviewed: \_\_\_\_\_

Attended By:  
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