

## Pre/Post Test: Basic Electricity Safety and Power Tools

Q: What is voltage?

A:

Q: Can you explain how a closed circuit works?

A:

Q: What is a “conductor” of electricity?

A:

Q: What effects can electric shock have on the human body?

A:

Q: Can electric shock be fatal even if the voltage is not very high?

A:

### True or False

If a person nearby has contact with a live electric current and receives an electrical shock you should grab them and pull them off the current of electricity.

All power tools are designed to do the same job regardless of their size; the size is just a choice of the manufacturer.

You should never keep your finger positioned on the on/off button of a power tool.

You should always check that the power source has enough voltage to support the amount needed by the power tool you are going to be using.

It is ok to leave the power tool plugged in overnight if you are going to be using it the next day.

## **Answers to the Pre/Post Test: Basic Electricity Safety and Power Tools**

Q: What is voltage?

A: Voltage is the measurement of electric potential.

Q: Can you explain how a closed circuit works?

A: A closed circuit provides an uninterrupted path for current to flow, and can be defined as a complete electrical circuit around which current flows.

Q: What is a “conductor” of electricity?

A: A conductor is an object or type of material that allows the flow of electricity.

Q: What effects can electric shock have on the human body?

A: Headache, muscle fatigue or spasms, temporary unconsciousness, temporary breathing difficulty, severe burns, vision loss, hearing loss, brain damage, respiratory arrest or failure, cardiac arrest (heart attack), death.

Q: Can electric shock be fatal even if the voltage is not very high?

A: Yes

True or False

If a person nearby has contact with a live electric current and receives an electrical shock you should grab them and pull them off the current of electricity. (FALSE)

All power tools are designed to do the same job regardless of their size; the size is just a choice of the manufacturer. (FALSE)

You should never keep your finger positioned on the on/off button of a power tool. (TRUE)

You should always check that the power source has enough voltage to support the amount needed by the power tool you are going to be using. (TRUE)

It is ok to leave the power tool plugged in overnight if you are going to be using it the next day. (FALSE)