

# BASIC ELECTRICAL PRINCIPLES

The operation of a watthour meter is based on the interaction of electrical properties in the circuit that is being metered. As a customer's demand for energy changes, the electrical values in the circuit change. The meter automatically responds to these changes in order to accurately measure energy consumption.

Most watthour meters are used with AC circuits. However, since the relationships of electrical values are easier to understand in terms of DC circuits, DC circuits are used in the examples described in this training guide. AC concepts are covered in another training guide.

## Ohm's Law

The current, voltage, and resistance in an electrical circuit are related to each other. A change in the value of one will affect the values of the others.

### Parts of a DC Circuit

Figure 1 is a simplified illustration of a DC circuit. The three basic parts of the circuit are a source, a load, and a path for current flow. Current travels from the source to the load and then returns to the source. In this example, the source is a DC battery, the load is a resistor, and the path for current flow is the wiring that connects the battery and the resistor.

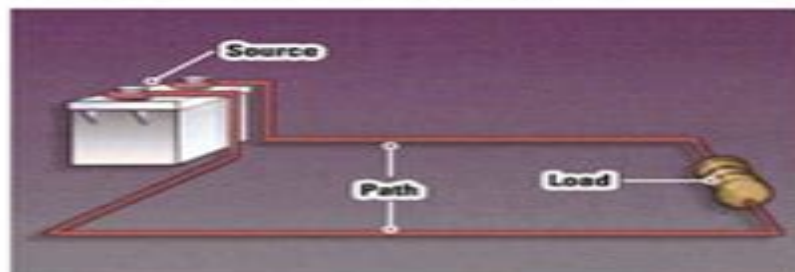


Figure 1. Simple DC circuit.

# Electric Current Study Guide

**James Adams, Maryn Munley, Nathan  
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