



**INNOTEK**  
Innovative Technical Solutions

**BE-101**  
**Basic**  
**Electrical**  
**Training**  
**System**

# BE-101

## Basic Electrical Training System

The BE-101 Basic Electrical Training System provides hardware for hands-on activities and the study of DC, AC and Solid State fundamentals. All devices are permanently mounted and can be quickly connected in a variety of configurations via banana jack connectors. Participants will be introduced to the function and use of various devices and circuits. In addition, test equipment and fault insertion activities will allow for development of troubleshooting skills.

### Included Hardware:

- Hard shell suitcase with removable cover, pull handle and casters
- Front panel with banana jack connections
- 120vac fused power entry
- Protected DC Voltage Source
- Protected AC Voltage Source
- Circuit protection fuses
- SPST Switch (1)
- SPDT Switch (2)
- DPDT Switch (1)
- NO Pushbutton (1)
- NC Pushbutton (1)
- Selector Switch (1)
- Fixed Resistors (4)
- Variable Resistor (1)
- Indicator Lights (3)
- Inductors (2)
- Transformer (1)
- DC Relay (1)
- AC Relay (1)
- Capacitors (2)
- DC Motor (1)
- Solenoid (1)
- Junction Diodes (4)
- User Selectable Fault Switches (6)
- Digital Multi-meter (2)
- Handheld Digital Oscilloscope
- Iron Rod and Compass
- Connection Leads



**Model Shown: BE-101-C**

# Topic Coverage

- **Electrical Quantities and Laws**

- Current
- Voltage
- Resistance
- Power
- Ohms Law
- Kirchhoff's Voltage and Current Law

- **Basic Circuits**

- Power Sources
- Conductors
- Control Devices
- Electrical Loads
- Over-current Protection Devices

- **Test Equipment and Instruments**

- Ohmmeter
- Ammeter
- Voltmeter

- **Resistors**

- Fixed
- Variable

- **Switches**

- SPST
- SPDT
- DPDT
- Pushbuttons
- Selector Switches

- **Series, Parallel and Combination Circuits**

- **Magnetism**

- **Inductors**

- **Relays**

- **Transformers**

- **Capacitors**

- **Semiconductor Fundamentals**

- **Diodes**

- **Half-wave Rectifier**

- **Full-wave Rectifier**

- **Troubleshooting Circuits**



# Contact Us

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