

Basic Industrial Power Electricity (IMC-1)

INDUSTRIAL MAINTENANCE



GREYSTONE

The Greystone line of training systems offers an all-in-one solution for your mechatronics and industrial maintenance lab! Durable lab equipment and rigorous courseware combine to deliver all you need for your secondary or post-secondary career and technology education program.

These robust, versatile training stations allow for in-depth training in small spaces. From desktop trainers to mobile training stations, Greystone stations feature industrial-grade components incorporated into rugged aluminum framework. All trainers include competency-based curriculum with emphasis on operating theory, installation, maintenance, and troubleshooting.

Give your trainees and students the advantage of working with the same equipment they will encounter in industry. Choose Greystone training systems!



Basic Industrial Power Electricity is a stand-alone benchtop training station providing students with fundamental electrical concepts essential for success in career-based training. Topics include lockout/tagout and safety, measuring voltage and three-phase power.

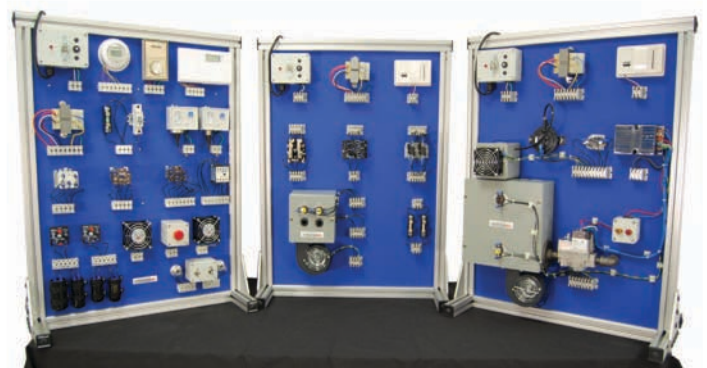
Basic Industrial Power Electricity presents the working principles of electricity the most effective way: using the same industrial-strength components used in industry. Students learn the principles of industrial power electricity, from Ohm's Law theory to hands on activities building circuits and working with inductors, motors and generators.

The included Student Study Guide lays a solid foundation in the theory and concepts involved in industrial power as well as guiding students step by step through hands-on lab activities with the trainer equipment.

EXPAND YOUR INDUSTRIAL TRAINING PROGRAM

Increase the versatility of your training program with the following additional options and related hardware:

- Electrical Control Training: Industrial Power Control, Motor Control, PLCs
- Electrical Wiring
- HVAC Control Training
- Mechanical Training: Machine Shaft Alignment, Vibration Analysis



Basic Industrial Power Electricity

Materials Included

Order # 10-IMCI-0000

IMC-I Trainer

- Frame size: 34"h x 27"w x 14.25"d
864mm x 686mm x 362mm
- Trainer weight (approximate): 40 lbs (18 kg)
- Construction: Anodized aluminum U-shaped frame with environmentally stabilized, non-conductive polymer panels.
- Power Requirements: 120V 15A single-phase AC
- Electrical connections:
 - All electrical components are permanently mounted to the panels
 - Electrical components are wired through industry-standard terminal strips rated at 50-amps @ 600-volts
 - Terminal strips feature recessed and insulated fasteners and are field-serviceable
 - Electrical connections are completed through color-coded 16-gauge insulated and stranded lead wires
 - Each connecting lead wire is terminated on each end with metal uninsulated, crimped ferrules
- Included Accessories
 - 4 D-size batteries
 - Hook-up lead kit
 - Spare bulb kit
 - Student study guide
 - Installation guide

Optional Curriculum Supplements

- Basic Industrial Power Electricity - Textbook #10-IMC1-TB01

Course Outline

Safety

- Activity 1: Connecting and Controlling Electric Circuits
- Activity 2: Sources of Electricity
- Activity 3: Conductors and Insulators
- Activity 4: Resistors and Capacitors
- Activity 5: Ohm's Law
- Activity 6: Series Circuits
- Activity 7: Parallel Circuits
- Activity 8: Series-Parallel Circuits
- Activity 9: Magnetism
- Activity 10: Alternating Current
- Activity 11: Electromagnetic Induction
- Activity 12: Motors and Generators
- Activity 13: Reactance and Impedance
- Activity 14: Introduction to 3-phase Power

Affiliated with:



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Basic Industrial Power Electricity features a stand-alone, portable training station equipped with industrial grade components providing 14 hours of combined classroom and laboratory training in critical skills for electrical technicians.



Components

- ON/OFF switch with breaker
- Adjustable AC/DC power supply
- 6V DC battery
- Microammeter
- Switches (4)
- Lamp (1)
- Buzzer
- Thermocouple
- Photovoltaic (PV) Cell
- Capacitors (5)
- Wire Samples (8)
- Wire gauge
- Compass
- Adjustable resistors (4)
- Fixed resistors (5)
- Conductor samples
- 3.7v Lamps (3)
- 6.3v Lamps (3)
- Solenoid
- Relay
- Contactor
- Motor / generator
- Bar magnets (2)
- Inductors (2) and steel core

Make Greystone Training Systems part of a comprehensive STEM program!

Add virtual, hardware-based or blended learning labs to deliver in-depth Industrial Maintenance, Mechatronics and Advanced Manufacturing programs.



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