

Residential Wiring & Controls (RWAC-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!



Residential Wiring and Controls (RWAC-1)* is a stand-alone benchtop training station providing students with fundamental knowledge of Residential Wiring, essential for success in career-based training.

Residential Wiring and Controls (RWAC-1) presents the working principles of electrical wiring the most effective way: using the same industrial-strength components used in industry. Students learn the principles of residential power electricity from the utility pole to all major residential purposes, including smoke alarms, lighting and circuit breakers.

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

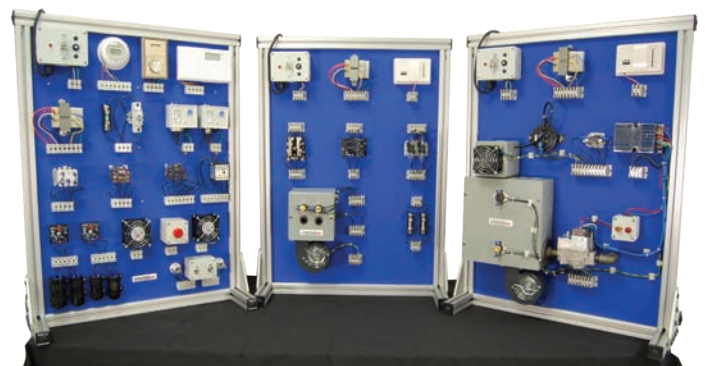
**Available to North American markets only.*

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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



Residential Wiring & Controls

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Materials Included

Order # 10-RWAC-0000

- Frame Size: 30"h x 48"w x 20"d
- Overall Size: 37"h x 56"w x 20"d
- Weight (approximate): 80 lbs
- Construction: Anodized aluminum U-shaped frame with environmentally stabilized, non-conductive polymer back and side panels. All electrical components are permanently mounted to the back and side panels
- Electrical connections:
 - Electrical components are wired through industry-standard terminal strips rated at 50-amperes @ 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
- Power Requirements: 220V AC 15A single-phase
- Student study guide
- Installation guide



■ **A stand-alone, portable training station providing 50 hours of combined classroom and laboratory training in the following topics:**

- Draw and read electrical plans
- Service entrance wiring
- Sub-panel wiring
- 1-way, 2-way, 3-way and 4-way switching
- Dimmers
- Duplex, appliance and GFCI receptacles
- GFI and AFI circuit breakers
- Incandescent, fluorescent and security lighting
- Door chime wiring
- Smoke alarm wiring
- Timers
- Data, video and communications wiring

Optional Curriculum Supplements

- Residential Wiring - Textbook Order # 10-RWAC-TB01
- Residential Wiring - Instructors guide Order # 10-RWAC-IG01
- National Electrical Code - Soft Cover Order # 10-RWAC-NEC1



Trainer shown with textbooks, sold separately.

Course Outline

- Activity 1: General Information and Safety
- Activity 2: Electrical Symbols and Wall Boxes
- Activity 3: Service Entrance Equipment
- Activity 4: Circuit Breakers
- Activity 5: Wiring a Sub-Panel
- Activity 6: Receptacles
- Activity 7: Conductors
- Activity 8: Luminaires, Ballasts, and Lamps
- Activity 9: Single-Pole, Timer and Dimmer Switches
- Activity 10: Three-way Switching
- Activity 11: Four-way Switching
- Activity 12: Split Circuit Receptacles
- Activity 13: Special-Purpose Receptacles
- Activity 14: Ground-Fault Circuit Interrupters
- Activity 15: Arc-Fault Circuit Interrupters
- Activity 16: Television and Telephone Systems
- Activity 17: Signal Systems (Door Chimes)
- Activity 18: AC/DC Smoke Detectors
- Activity 19: Wiring the Bedroom
- Activity 20: Wiring the Master Bedroom
- Activity 21: Wiring the Bathroom
- Activity 22: Wiring the Porch
- Activity 23: Wiring the Kitchen
- Activity 24: Wiring the Living Room
- Activity 25: Wiring the Study
- Activity 26: Wiring the Laundry Room
- Activity 27: Wiring the Garage
- Activity 28: Wiring the Recreation Room
- Activity 29: Wiring the Workshop
- Activity 30: Special-Purpose Outlets
- Activity 31: Central Heating Systems
- Activity 32: Water Hazards
- Activity 33: Home Automation Systems
- Activity 34: Standby Power Systems

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 and Agricultural programs.



Affiliated with:



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