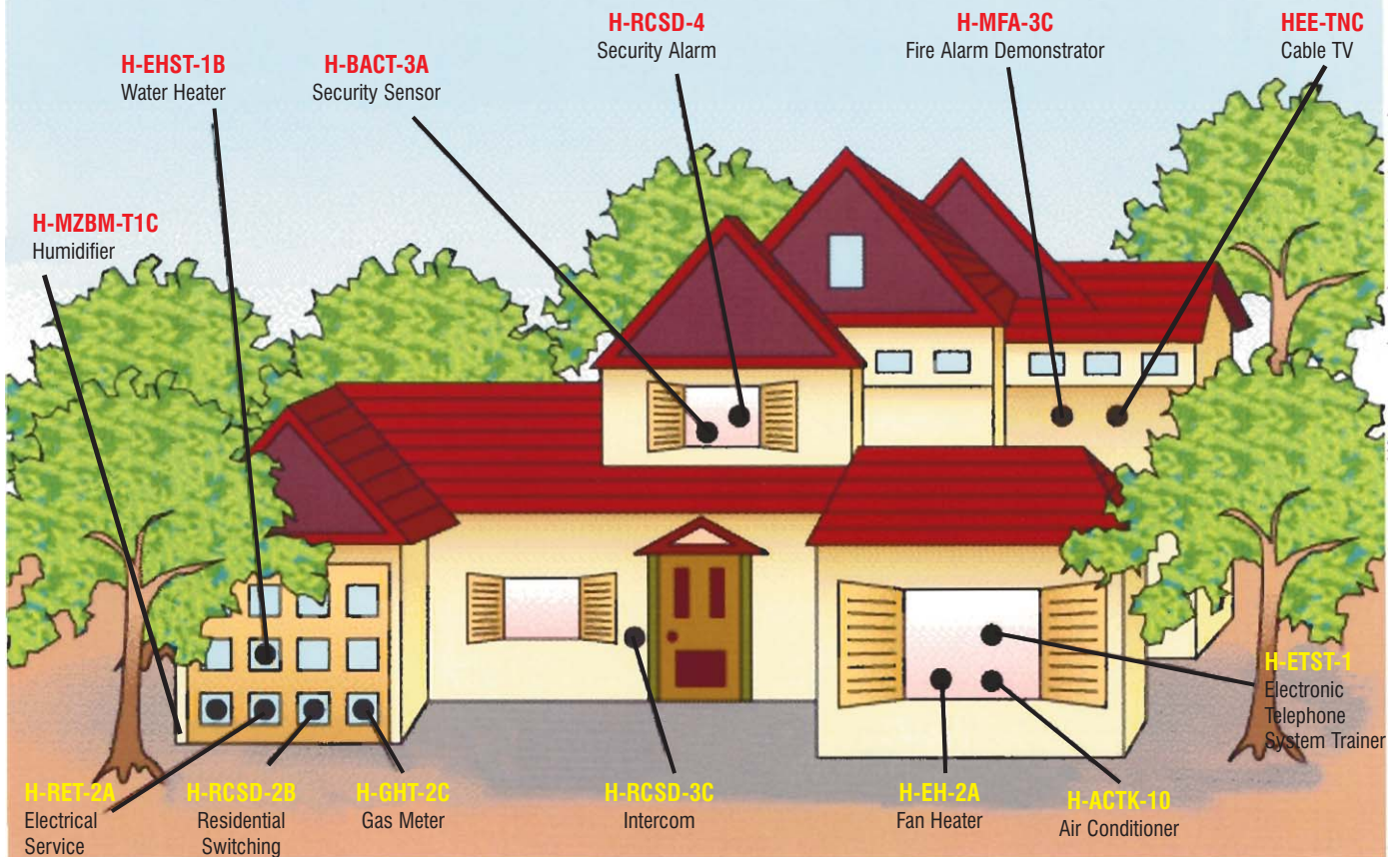


HIGH SCHOOL TECHNOLOGY Electrical Cluster Program



Hampden
ENGINEERING CORPORATION



Maximize your students' training experience ...
combine your curriculum with Hampden equipment

9th Grade

CURRICULUM

- ▶ Basic Electrical Theory I
- ▶ Basic Electrical Theory II

EQUIPMENT

- ▶ WB-6AD-X Four Student Work Bench w/AC Service panel
- ▶ WB-6A Two Student Work Bench
- ▶ H-444-1 Digital Multimeter
- ▶ HEE-A-C Electricity Trainer



The **Model H-444-1** Digital Multimeter is a hand-held laboratory-grade multimeter designed for accurate measurements in any environment



HEE-A-C, the core segment of the HEE series, consists of a self-contained power source, various components, and a Student Workbook containing 91 experiments under 17 topic headings

10th Grade

CURRICULUM

- ▶ Introduction to Meters
- ▶ Introduction to National Electrical Code/Residential Wiring

EQUIPMENT

- ▶ H-RET-2A Residential Electricity Trainer
- ▶ H-RCSD-2B Residential Remote Control Switching Demonstrator
- ▶ H-RCSD-3C Residential/Commercial Remote Control Switching Demonstrator
- ▶ H-RCSD-4 Home Audio, Video and Surveillance Control Wiring Demonstrator
- ▶ H-MZBM-T1C Multi-Zone Building Energy Management Trainer w/Honeywell Controls
- ▶ H-MZBM-J2A Multi-Zone Building Energy Management Trainer w/Johnson Controls
- ▶ H-EHST-1B Electric Heat Service Trainer
- ▶ H-GHT-2C Gas Heat Trainer
- ▶ HEE-TNC Telecommunication Network Cabling Trainer
- ▶ H-ACTK-10 Room Air Conditioner Trainer Kit



The **Model H-EHST-1B** Electric Heat Service Trainer facilitates the study and troubleshooting of the electrical and control circuits of an electric heat furnace.



The **Model H-RCSD-2B** Residential Remote Control Switching Demonstrator provides a complete trainer showing a state-of-the-art home wiring system via programmed or manual remote control of lighting and appliances.

▶ The **Model H-MZBM-T1C** Multi-Zone Building Energy Management Trainer w/Honeywell Controls provides a means for training students in the installation, operation, and troubleshooting of a variable air volume unit and a constant volume air handler. The control system allows on-screen menu-prompting displays and operator responses. The controller allows the operator to control every phase of the Energy Management process.

Hampden will modify any of our standard training tools and simulators to meet your specific needs

11th Grade

CURRICULUM

- ▶ Lighting and Blueprint Reading
- ▶ Advanced National Electrical Code/Commercial Wiring

EQUIPMENT

- ▶ H-EM-2D Emergency Light Demonstrator
- ▶ H-MFA-3C Fire Alarm Demonstrator
- ▶ H-BACT-3A Security Alarm Circuits Trainer
- ▶ H-EH-2A Electric Heat Demonstrator
- ▶ H-MCP-3B Clock Demonstrator
- ▶ H-ETST-1 Electronic Telephone System Trainer

The Hampden Supervisory Panel Systems give students the opportunity to investigate supervisory type electrical systems. Students can design, connect, and troubleshoot a variety of systems using standard commercial components.



H-BACT-3A
Security Alarm Circuits Trainer



H-MFA-3C
Fire Alarm Demonstrator

The **Series 100** system of machines, controllers, and accessories is designed primarily for multi-level instruction in electrical power generation and utilization. ▼



The **Model EM-ACC-100K-MCS** AC/DC Controller provides students with the opportunity of observing the operation of electromagnetic contactors and relays. Each Lexan® module contains one control component. The student interconnects these modules into systems to control the operation of Hampden Series 100 Fractional Horsepower Motors.



SM-100-3
Synchronous Machine



DM-100A
DC Machine



The **Model H-PLC-PP-1A-ML-1200** PLC and Peripheral Panel offers a complete package that provides students with an industry standard PLC and hardware that allows them to design, connect and debug real-world circuits.

12th Grade

CURRICULUM

- ▶ Motors and Generators
- ▶ Grounding and Electrical Services

EQUIPMENT

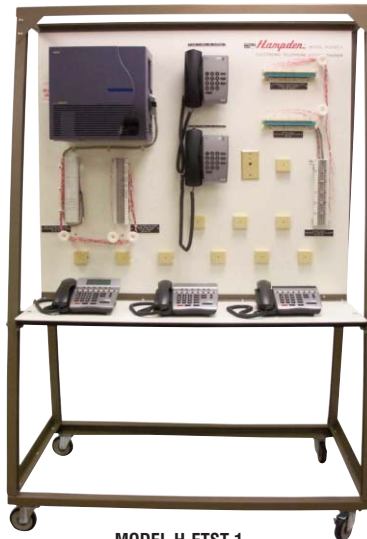
- ▶ BPS-104 AC/DC Power Supply w/Meters
- ▶ MGB-100-DG 2-Machine Bedplate
- ▶ DM-100A DC Machine
- ▶ SM-100-3 Synchronous Machine
- ▶ PB-100A Prony Brake
- ▶ HT-100-L Digital Optical Tachometer
- ▶ H-PLC-PP-1A-ML-1200 PLC and Peripheral Panel
- ▶ H-RS-LOGIX-LT RS Logix Starter Software
- ▶ H-RS-LOGIX-MICRO Software
- ▶ EM-ACC-100K-MCS AC/DC Controller

Standard Products...Designed to Meet Your Growing Needs!

HIGH SCHOOL TECHNOLOGY CURRICULUM

Optional Hampden Equipment for your Electrical Lab

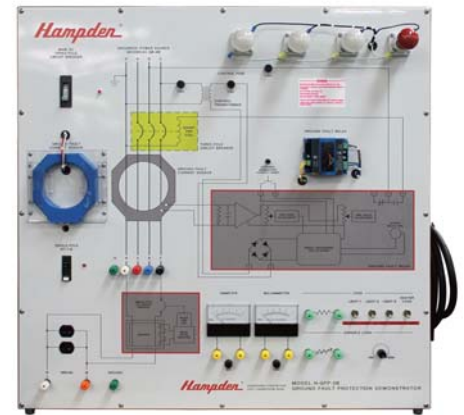
- ▶ 262-IN Instructor's Bench
- ▶ 262-SC Storage Cabinet
- ▶ H-GFP-2B Ground Fault Protection Demonstrator
- ▶ IM-100 Induction Motor
- ▶ MFM-100 Multi-Function Machine
- ▶ DCG-100 DC Generator
- ▶ RLC-100 Resistance-Reactance Load
- ▶ T-100A Transformer
- ▶ HDI-100 Dissectible Motor Program



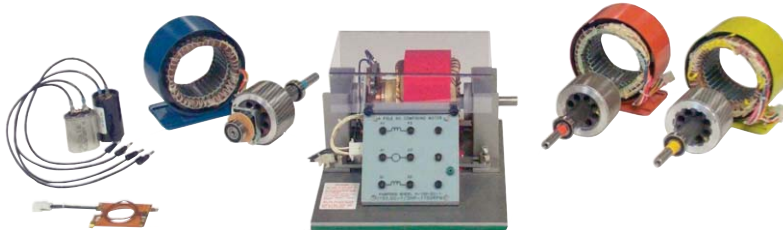
MODEL H-ETST-1
Electronic Telephone System Trainer



MODEL RLC-100
Resistance-Reactance Load



H-GFP-2B
Ground Fault Protection Demonstrator



HDI-100 Dissectible Motor Program
Hampden Dissectible Motors include DC and Single-phase and Three-phase AC in fractional horsepower size.



Hampden is committed to providing industry-leading technology.

For the latest from Hampden, visit our home page at <http://www.hampden.com> or e-mail us at sales@hampden.com

