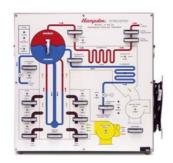
INDUSTRIAL PLANT MAINTENANCE PROGRAM

















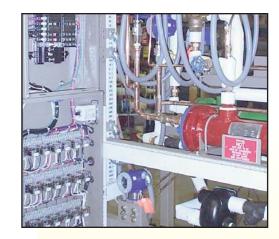


INDUSTRIAL PLANT MAINTENANCE PROGRAM

Real-World Industrial Training...

Hands-on Experience Using Commercial

Grade Components and Equipment.



Electrical

- Basic Electricity
- **►** Electrical Circuits
- Rotating Electrical Machines & Transformers

HMD-100 Series 100 Machines (shown)



Our Industrial Maintenance 'Electrical' program offers the equipment, components and learning materials necessary to obtain a solid understanding of Basic Electrical Circuits & Principles, HVAC Design & Control, and Security/Fire/Ground-Fault Circuit Design & Troubleshooting.

As an essential introductory course, we also offer **Hampden's Rotating Electrical Machines & Transformers package**—which provides an in-depth study of industry standard motor/generator systems with the advantage of hands-on design and troubleshooting capabilities.

Control Systems

- ► Electro-Mechanical Controls
- Control Electronics
- Drives

H-REM-ACDC-MC Mobile AC & DC Motor Control Trainer (shown)



A comprehensive offering of powerful learning tools designed to expand your students' knowledge of **Complex AC & DC Motor Control Circuitry**.

These selected components provide students with the equipment needed to assemble, test, and trouble-shoot 'real-world' motor/ generator configurations with concentration on **Advanced Microprocessor Based Control Systems**.

These units are designed to extend and accelerate a student's knowledge. Clearly identified controls, components and connections.

PLC/Energy Management

H-PLC Controller w/ Peripheral Panel H-PLC-PP-1A-ML-1200 (shown)

- ► PLC Controller
- Multi-zone Building Energy Management



Our Programmable Logic Control systems are designed to provide a comprehensive education in the basic functions and advantages of **Modern Logic Control Devices**.

Emphasis on Interconnection Wiring, General Programming Information, Ladder Diagram, Counters & Timers, Motor Control, Self-Diagnostics, and Power Failure Protection.

These state-of-the-art products include built-in troubleshooting and diagnostic capabilities and are exceptional tools for introductory through advanced studies.

AC, Refrigeration & Boilers

Complete coverage of **Basic through Advanced** industrial systems—utilizing **Actual Commercial Components**. All equipment may be equipped with sensors and signal conditioners for automatic data acquisition, logging, processing and control.

The world-wide success of Hampden's air conditioning, refrigeration and boiler products are a result of the extraordinary collaboration between Hampden engineers and the technical education community. Simply put, we are your very best source for any type of standard or custom product required to complete or expand upon your curriculum.

Complete your Hydraulic & Pneumatic Power

curriculum. Each program has been carefully

applications/demonstration laboratory on wheels.

Components are of first grade commercial quality,

labeled and permanently secured in place in order to

provide your students with the best hands-on learning

Optional courseware packages (available in VHS and

basic to advanced design and troubleshooting.

An excellent selection of educational training

Operations, and Diesel Power Systems.

CD-ROM formats) are highly recommended and cover

equipment designed to fully introduce students to the

Students learn state-of-the-art techniques for maintain-

ing and designing complex drive & linkage systems,

valve and actuator assemblies, as well as operating

and evaluating a fully functional industrial diesel engine

subjects of Mechanical Transfer Systems, Valve

engineered to provide you with a complete

environment available.

simulator.



- ► Refrigeration Systems
- ► Refrigeration Controls
- **Boiler Systems**

H-RST-2 Refrigeration System Trainer (shown)

Fluid Power

- Hydraulic Systems
- **▶** Pneumatic Systems

H-FP-223-14P (shown)



Mechanical Systems



▶ Valves

Diesel Systems

H-IMTS-1 Industrial Mechanical Transfer System Trainer (shown)

· Process Control

Process Plant

Industry Standard Controller

Calibration

& Controls Trainer (shown)

H-ICS-8189-4 Mobile Instrumentation

Hampden engineers have assembled this group of process control training products as a result of their universal success and popularity among educators.

Our Industrial Process Trainers provide all of the operating characteristics of full-sized industrial plants without the dangers inherent in an actual process plant environment. All trainers are fully equipped with all necessary hand valves, check valves, steam traps, drain connections and piping. Computer Data Logging is highly recommended as an option for all products.



Industrial Training Equipment...Built to Match Your Company's Needs!

Industrial Plant Maintenance Overview

ELECTRICAL

CONTROL SYSTEMS PLC/ENERGY
MANAGEMENT
REFR

AC, REFRIGERATION PO & BOILERS

FLUID POWER MECHANICAL SYSTEMS PROCESS CONTROL

Basic Electricity

Basic Electricity Kit
Electrical Circuits Kit
Relay Kit
Intermediate Electricity

Digital Multimeter **Electrical Circuits**

Security Systems
Ground Fault Devices
Fire Alarm System
Clock Systems
Emergency Lighting

Motor Control

Circuits Trainer
Remote Switching
Wire Control Software

Rotating Electrical Machines & Transformers

Motors & Machines Console Fractional Motor Setup 3-Phase Add-on Dissectible Motor Digital Photo Tachometer AC/DC Power Supplies Dissectible Transformer 3-Phase Transformer

Electro-Mechanical

AC Motor Control
DC Motor Control

Control Electronics

Stepper Motor Trainer
DC Servo Motor Trainer
Mag-Amp Control
SCR Controls Trainer
Adjustable Frequency

Speed Controller

Drives

Variable Frequency Drive 4-Quadrant DC Speed Controller

AC Vector Drive PLC Systems

PLC Controller

Energy Management

Multi-zone Building Energy Management (Honeywell)

Refrigeration

Prive Basic Refrigeration

Commercial

Refrigeration

Air Conditioning

Mobile Refrigeration

Cooling Tower Refrigeration Control

Compressor Simulator Solid State Controls Air Conditioning

AC & Refrigeration Test Bench

Controls

Intermediate Electricity
Refrigeration Cycle VHS

Boiler Systems

Forced Air & Hydronics Heating Demo Boiler System Trainer Gas Controls Trainer Electronic Ignition

Hydraulic Systems

Hydraulics Trainer Electro Hydraulics Hydraulic Faults Trainer

Hydraulics Video Instruction Program

Pneumatic Systems

Pneumatics Option
Pneumatic Faults Trainer
Pneumatics Video
Instruction Program

Drive Gears

Industrial Maintenance Training System

Ind. Maint. Video Mechanical Transfer System

Valves

Valve and Actuator Trainer

Limitorque Valve Operator Trainer

Mobile Pump & Valve System

Alignment Trainer

Rigging Trainer

Diesel Systems

Digital Diesel Engine Simulator

Diesel Video Instruction

Industrial Process Plant Trainer

Control

Plant

Mobile Process Control System

Calibration

Instrumentation & Calibration Console

Instrument & Control Interface Package







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

