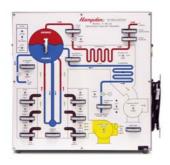
TPC LEARNING MANAGER™

# INDUSTRIAL



## MAINTENANCE PROGRAM





















# INDUSTRIAL 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)







## INTERNATIONAL MAINTENANCE INSTITUTE CERTIFICATE PROGRAM

The International Maintenance Institute's mission is to provide industry with certified maintenance professionals through a qualified program of education, training, and testing.

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.

A comprehensive offering of powerful learning tools

designed to expand your students' knowledge of

These selected components provide students with

the equipment needed to assemble, test, and trouble-

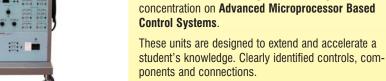
shoot 'real-world' motor/ generator configurations with

Complex AC & DC Motor Control Circuitry.

## **Control Systems**

- ► Electro-Mechanical Controls
- Control Electronics
- Drives

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



## PLC/Energy Management

- PLC Controller
- Multi-zone Building Energy Management



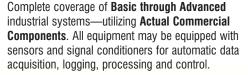
H-PLC Controller w/ Peripheral Panel H-PLC-PP-1A-ML-1200 (shown)

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



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.



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

H-RST-2 Refrigeration System Trainer (shown)

## vitraulie & Preumatic Power

Complete your **Hydraulic & Pneumatic Power** curriculum. Each program has been carefully engineered to provide you with a complete 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 environment available.

Optional courseware packages (available in VHS and CD-ROM formats) are highly recommended and cover basic to advanced design and troubleshooting.

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

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 oper-

without the dangers inherent in an actual process plant

drain connections and piping. Computer Data Logging

ating characteristics of full-sized industrial plants

environment. All trainers are fully equipped with all

necessary hand valves, check valves, steam traps,

is highly recommended as an option for all products.

and evaluating a fully functional industrial diesel engine

subjects of Mechanical Transfer Systems, Valve

An excellent selection of educational training

Operations, and Diesel Power Systems.

simulator.



- ► Hydraulic Systems
- **▶** Pneumatic Systems

H-FP-223-14P (shown)

## Mechanical Systems



- Drive Gears
- Valves
- Diesel Systems

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

### · Process Control



- **▶** Process Plant
- ► Industry Standard Controller
- Calibration

H-ICS-8189-4 Mobile Instrumentation & Controls Trainer (shown)



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

### Industrial Maintenance Overview

**ELECTRICAL** 

CONTROL SYSTEMS PLC/ENERGY MANAGEMENT

AC, REFRIGERATION & 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

Basic Refrigeration Commercial Refrigeration

Air Conditioning

Cooling Tower

Mobile Refrigeration

#### **Refrigeration Control**

Compressor Simulator Solid State Controls Air Conditioning

Controls

AC & Refrigeration

Test Bench 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

