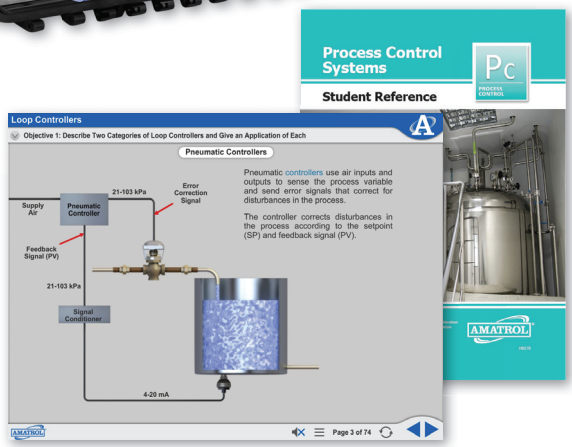
Portable Process Control Learning System - Level & Flow

990-PC1

PROCESS CONTROL

Portable Process Control Training



Interactive Multimedia Curriculum and Student Reference Guide

Learning Topics:

- Process Control Concepts
- Instrument Tags
- Piping and Instrumentation Diagrams
- Loop Controllers
- Final Control Elements
- Level Measurement
- Liquid Level Control
- Methods of Automatic Control
- Flow Measurement and Control
- Control Loop Performance

Amatrol's Portable Process Control Learning System – Level & Flow (990-PC1) covers two of the most common types of process control systems, flow and liquid level, by providing eLearning curriculum and hands-on training for subjects like process control equipment safety, loop controllers, level measurement and control, control loop performance, and more! Process control is used in a variety of industrial areas including power generation, petrochemicals, food processing, and manufacturing. This system is durable, portable, and offers process control training on a space as small as a conference room table or shop floor desk.

This Portable Process Control training system features two portable consoles featuring a PID controller, operator controls, process meter, flow transmitter, water tanks, gauges, and more! Learners will use these components along with the multimedia curriculum to study topics like process control safety, interpreting instrument tags, valve and pump symbols, loop controllers, proportional control valves, display scaling, closed loop liquid level control, proportional control, flow sensors, and open-loop tuning. Amatrol uses industry-standard components that allow learners to practice real-world skills using equipment that they'll see in advanced manufacturing environments.

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Technical Data

Complete technical specifications available upon request.

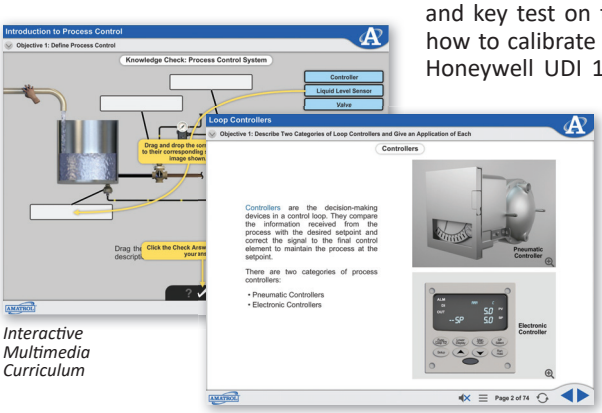
Portable Consoles
Control Panel
Liquid Tanks
Centrifugal Pump/Motor
Piping Network with Valves
Instrumentation
PLC Interface
Interactive Multimedia Curriculum (M33354)
Instructor's Guide (C33354)
Installation Guide (D33354)
Student Reference Guide (H33354)
Additional Requirements:
Hand Tool Package (41205)
Computer – See requirements: https://www.amatrol.com/support/computer-requirements
Additional Recommendations:
Mobile Technology Workstation (82-610)
Utilities:
Compressed Air
Electric (120V/60Hz/1ph)
Water Source

Practice Hands-On Process Control Skills with a Portable Training Solution

This Portable Process Control training system includes portable consoles, liquid tanks, centrifugal pump, a piping network with valves, and a PLC interface. Learners will practice hands-on skills with these components to gain an understanding of how process control equipment works. Skills highlighted by this system include connecting and operating loop controllers and diaphragm actuator proportional valves, using a multimeter to test pressure sensor operation, connecting and operating alarms on a controller, controlling a process using PI control, measuring flow using a paddlewheel flow sensor, and tuning a control loop using the process reaction curve method.

Use Process Control Training Multimedia to Study How an Instrument Tag Identifies the Function of a Device

Curriculum for process control training is provided in a stunning multimedia format. Learners will study: how an instrument tag identifies the function of a device, how to perform a display and key test on the Honeywell UDC 3500 controller, how to calibrate an I/P converter, how to program a Honeywell UDI 1700 process meter to perform on/off control, how to convert between velocity and volumetric flow rate units, and how to tune a loop using the process reaction curve open-loop method. Amatrol's peerless interactive multimedia curriculum utilizes text with voiceovers, pictures, videos, stunning 3D animations, and interactive quizzes and reviews that engage learners in theoretical knowledge and concepts.



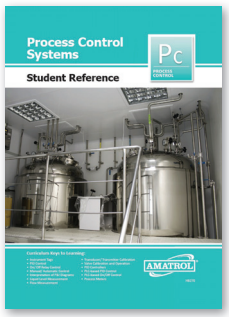
Interactive Multimedia Curriculum

Portable Process Control Troubleshooting

Amatrol's Portable Process Control Troubleshooting (990-PC1F) features all of the hardware and curriculum of the 990-PC1 with the addition of troubleshooting skills. Process Control Troubleshooting uses Amatrol's FaultPro to electronically insert faults into Process Control functions and operations that learners must diagnose and successfully troubleshoot.

Student Reference Guide

A sample copy of the Portable Process Control (Level & Flow) Student Reference Guide is included with the learning system. Sourced from the curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfectly-bound book. If you would like to inquire about purchasing additional Student Reference Guides for your program, contact your local Amatrol Representative for more information.



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