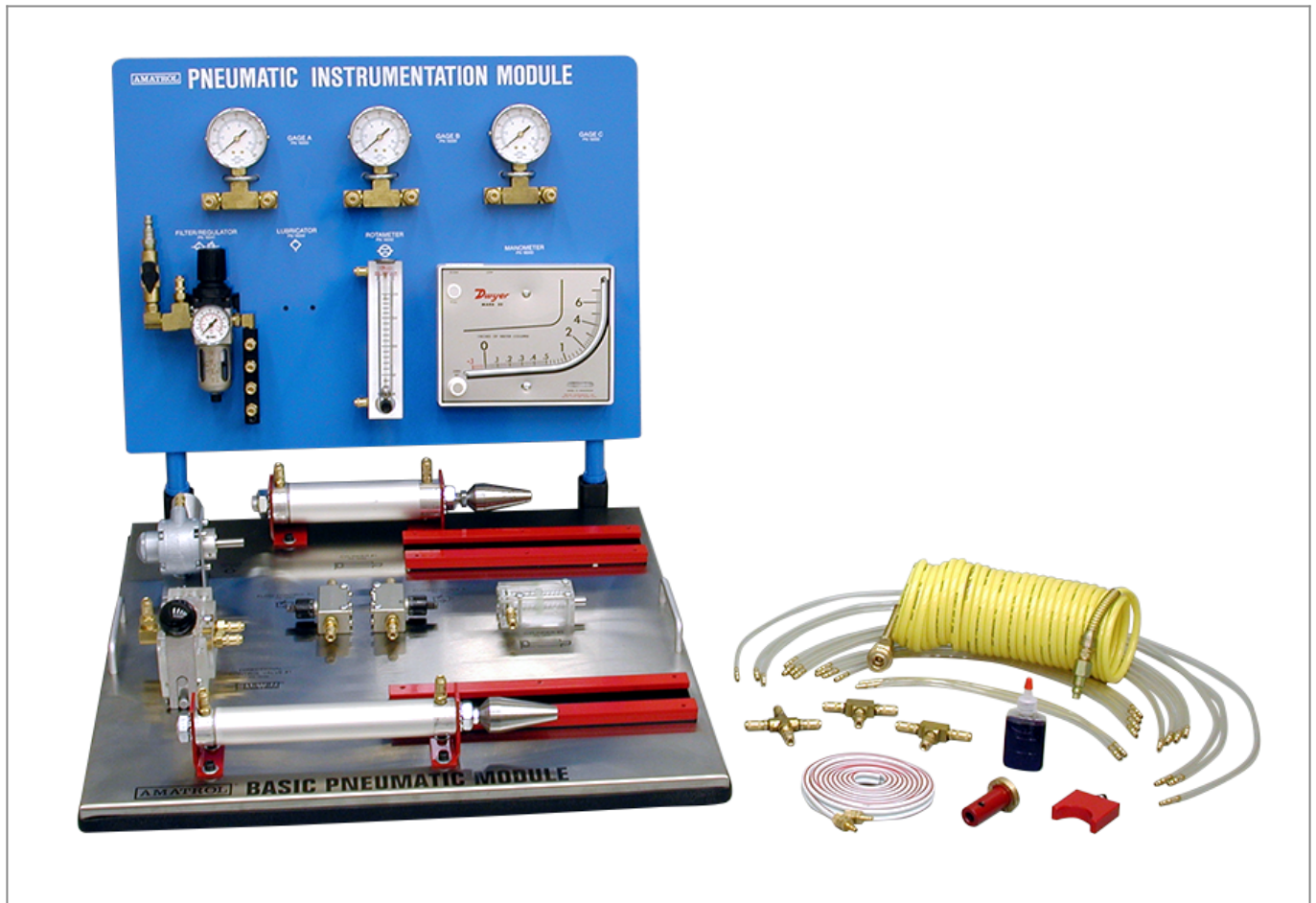


Pneumatics 1 Learning System |96-PNE1



Learning System: 96-PNE1

Amatrol's high school pneumatics training system (96-PNE1) teaches learners how to operate and install basic pneumatic systems, analyze performance, and design basic pneumatic circuits. Pneumatic power is a foundation of industry used in applications across fields like agriculture, pharmaceuticals, automation, and many more!

The high school pneumatics training system includes a basic pneumatics panel, basic pneumatics instrumentation panel, and a pneumatic hose and fittings set. The system features industrial-quality components to prepare learners for what they will encounter on the job. Learners will use these components to study major topic areas, such as pneumatic power systems, basic pneumatic circuits, principles of pneumatic pressure and flow, and pneumatic speed control circuits. The system can also be expanded with Amatrol's Pneumatics 2 Learning System to teach intermediate pneumatic knowledge and skills

Teach Hands-On Skills

Study Pneumatic Components and Practice on Real-World Equipment

Amatrol's high school pneumatics training system features a variety of industry-standard pneumatic components, including an air motor, cylinders, pressure gauges, filter regulator, rotameter, manometer, and many more! Learners will use these components to practice skills, such as: using a cross to connect three circuit branches together; connecting and operating a unidirectional pneumatic motor using a 3-way, manually-operated directional control valve; converting between gauge and absolute pressure; connecting and reading a flowmeter; and connecting and operating a pressure port speed control circuit.

Expand Your System To Teach Intermediate Pneumatic Concepts and Skills

Users who want to move beyond basic pneumatics can expand their system by adding the optional Pneumatics 2 Learning System ([96-PNE2](#)). This system teaches learners intermediate pneumatic topics like pneumatic directional control valve applications, vacuum systems, and air logic. Industrial-quality components include a pushbutton valve assembly, Venturi block assembly, and a load cylinder assembly. Learners will be able to practice hands-on skills, such as connecting and operating an externally air-piloted directional control valve, connecting and operating a vacuum generator, and designing a pneumatic seal-in circuit.

Interactive eLearning

Engaging, Highly-Interactive Multimedia

Amatrol's curriculum features a highly-interactive, [multimedia](#) format that includes stunning 3D graphics and videos, voiceovers of all text, and interactive quizzes and exercises designed to appeal to learners with different learning styles. The high school pneumatics curriculum teaches learners about circuit connections, single-acting cylinder circuits, pneumatic leverage, pressure and volume, and speed control. For example, learners will study topics like: the operation of a double-acting pneumatic cylinder; the function of a muffler; calculating the force output of a cylinder in retraction; and the effect of actuator load changes on flow control valve operation.

The curriculum also features a virtual trainer option that allows learners to gain skills through realistic simulation before using the real equipment. The combination of theoretical knowledge and hands-on skills solidifies understanding and creates a strong basis for pursuing more advanced skills.

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Free Learning Management System (LMS)

Amatrol eLearning is easy-to-use for both students and instructors. Its web-based interface is simple to navigate and available on any WebGL-compatible Internet browser. Instructors love Amatrol eLearning for its simple, yet sophisticated Learning Management System (LMS). The LMS allows instructors to create custom courses, monitor student participation, track course progress, assess knowledge levels prior to a course, and test knowledge levels after completion. Learners appreciate the fact that they can start and stop as needed, moving through each Amatrol course at their own pace. If a self-review reveals that they didn't understand a particular topic as well as they thought they did, they can revisit it before moving on.

Additional Info

- Compressed Air Supply (2 CFM @ 100 PSIG/0.06 cmm @ 690 kPa)
- Computer: [See requirements](#)

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