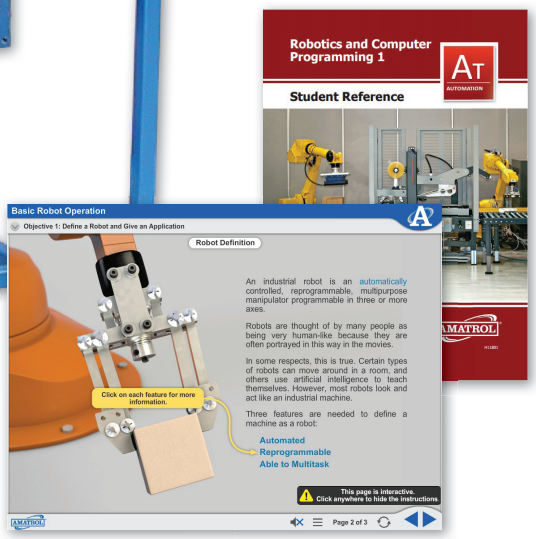
Robotics & Computer Programming Learning System

94-RCP-1

AUTOMATION

94-RCP-1



Interactive Multimedia Curriculum and Student Reference Guide

Learning Topics:

- Interfacing External Devices
- Basic Robot Programming
- Basic Robot Operation
- Quality Control
- Data Outcome Based Control
- Production Control
- Conditional Command Operation
- Flexible Manufacturing Cells
- Application Development
- Command Operation
- Material Handling Control

Amatrol's Robotics & Computer Programming System (94-RCP1) allows learners to gain skills in interfacing external devices, programming and operating robots, controlling production, and more. The 94-RCP1 will allow learners to practice and study how to identify robot and robot axis components, design programs for robots, explain how robots operate, developing workcells, and more.

This robotics and computer programming system features Pegasus Robotic Simulation Software Integrated Workstation expand the capabilities of 94-RCP-1 Optional Flexible Manufacturing Learning System 1, 94-FMS-1 and more! Learners will use these and other components to practice programming, operating, developing, and controlling of real-world robotics and computer equipment. Amatrol uses components that learners will find on-the-job in order to give the best opportunity to build confidence and industrial competencies.

AMATROL®

Technical Data

Complete technical specifications available upon request.

Flexible Workstation
Articulated Pegasus servo robot
- Repeatability, 0.18 mm
- Payload, 1 Kg
- Reach, 610 mm
- Robot controller
- Teach pendant
- Programming cable
- Robot control software
- Controller mounting module
- Keyboard and monitor mounting module
- Utilities distribution module
- Electrical power module
- Compressed air distribution module
- Basic parts set
- Gravity feeder
- Application workcell package
- Robotic simulation software
- Robotic conveyor module

Interactive Multimedia Curriculum (M11801)
Instructor's Guide (C11801)
Install Guide (D11801)
Student Reference Guide (H11801)
Additional Requirements
- Model 88-F1 Parts Feeder
- Model 88-200-1 Flexible Workstation or equivalent
- Model 88-P1 Basic Rectangular Parts Set
- Model 88W1 Application Workcell Package, Level 1
- Model 88-LC1 Robotic Conveyor Module
- Hand Tool Set or equivalent

Utilities
- Electrical Power: 1-Phase, 115 VAC, 60 Hz, 6 Amps or 1-Phase, 230 VAC, 50 Hz, 6 Amps

Utilize Industrial Grade Components to Program and Operate Robots

The model 94-RCP1 includes an articulated servo robot, robot controller, teach pendant, programming cable, robot control software, flexible workstation, controller mounting module, keyboard and monitor module, utilities distribution module, electrical power module, compressed air distribution module, basic parts set, gravity feeder, application workcell package, robotic simulation software, robotic conveyor module, curriculum and instructor's assessment guide. Learners will use these components to practice vital robotic and computer programming skills, such as: basic robot operation and programming, interfacing and material handling, application development, flexible manufacturing cells, quality and production control, and workcell development.

Cutting-edge Pegasus Robotic Simulation Software

Amatrol's Pegasus Robotic Simulation Software allows learners to program and experience a virtual robot. Simulating test programs allows learners to test ideas without harming the robot. Simulation software also leverages hardware investment by allowing more than one learner to develop skills at a time.

Unmatched Interfacing and Programming Skills

This learning system also includes Amatrol's world-class curriculum, which combines strong theoretical knowledge and concepts with hands-on skills for the best industrial competency-building on the market. This thorough, exceptionally detailed curriculum, which is also available in an optional multimedia format, is built to begin with the basics and steadily advance to more complex concepts and skill. Amatrol's Robotics & Computer Programming Learning System teaches learners skills that are commonly used by technicians, and engineers in today's industry. Learners will gain expertise in key skill areas such as interfacing external devices, data outcome based control, conditional command operation, application development, and command operation, material handling control.

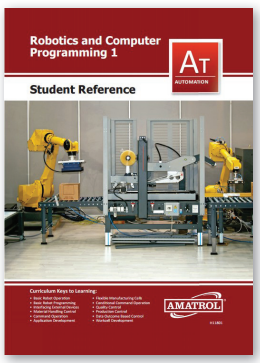
Interactive Multimedia Curriculum

Expand the Capabilities of 94-RCP1

Amatrol's Robotics and Computer Programming Learning System 1 can be expanded and enhanced. In addition to the Robotics and Computer Programming Learning System learners can expand on their knowledge with the Flexible Manufacturing Learning System (94-FMS2) which can be added to the 94-RCP1. Learners study skills in linear motion, world and tool coordinates, ASCII data manipulation, palletizing, barcode readers, digital gauging, CNC workcells, serial communications, multitasking, and interrupts. These capabilities are commonly found in the current generation of industrial robots learners will encounter in industry.

Student Reference Guide

A sample copy of the Robotics and Computer Programming Student Reference Guide is also included with the system for your evaluation. Sourced from the system's multimedia curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfectly-bound book. Student Reference Guides supplement this course by providing a condensed, inexpensive reference tool that learners will find invaluable once they finish their training making it the perfect course takeaway.



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