

# Automation System Specialist

ASSOCIATE & SPECIALIST MICROCREDENTIALS



## Smart Factory Mechatronics

*HANDS-ON LEARNING & ASSESSMENT SYSTEM*

Amatrol's Smart Factory Tabletop Mechatronics five station system connects with Amatrol's Portable PLC Troubleshooting Learning System – AB Compact Logix (990-PABCL1F), which shows performance analysis of the system via I/O Link. Performance analysis information includes transmitter pressure, photoeye signal strength, material type for parts passing through the system, RFID tag output, and more! This system uses a selection of Rockwell Automation products to provide the most realistic industrial experience. Amatrol is a Rockwell Automation OEM Platinum Partner.



## Skill Boss Manufacturing

*HANDS-ON LEARNING & ASSESSMENT SYSTEM*

Amatrol's Skill Boss Manufacturing (95-MSB1 / 95-MSB2AB) offers organizations performance-based assessment for evaluating the skill levels and competencies of future machine operators. This system fits onto a standard tabletop and features an electric motor, variable frequency drive, human-machine interface, pneumatic pick-and-place module, and much more! When setup, this system will quality test and sort blocks made from plastic and metal.

Skill Boss Manufacturing was designed to assess the hands-on skills needed by today's modern manufacturing production areas including assembly & machine operation. No other system boasts this many technologies in a portable platform.



**INDUSTRY 4.0 CREDENTIALS**

### GOLD

- C101 Basic Operations
- C102 Advanced Operations
- C103 Robot Systems (with FANUC Cert Cart)
- C104 Industrial Internet of Things
- Ethernet Communications
- Total Production Maintenance Management
- Programmable Logic Controllers 1
- PLC Troubleshooting
- Robot Systems
- Robot Operations
- Smart Sensor Identification (with Pressure Sensor option)

### SILVER

- Electrical Systems 1
- Sensor Logic Systems
- Pneumatics
- Mechanical Systems 1
- Electrical Systems Installation 1
- Electric Motor Control
- Motor Control Troubleshooting



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## Amatrol eLearning

VIRTUAL TRAINERS

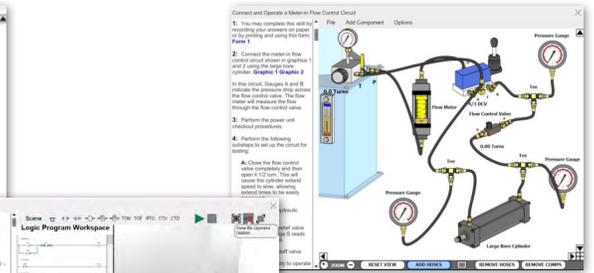


Amatrol's virtual trainers allow learners to practice hands on skills via eLearning. These simulators replicate Amatrol's physical training systems in such great detail that learners can build essential skills even when they don't have access to actual equipment. This provides much-needed flexibility in today's fast-paced learning environment.

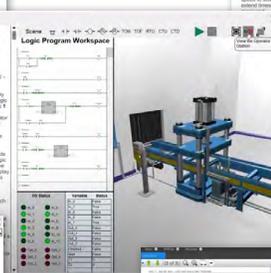
Existing in an open workspace, these virtual training systems allow students the freedom to make any connections or take any steps they choose, and do not force them along a predetermined series of steps. This provides a true learning experience and allows students to learn from both their successes and errors. The skill level students develop with these virtual trainers can greatly reduce students' hands-on time with equipment to complete their skill mastery.



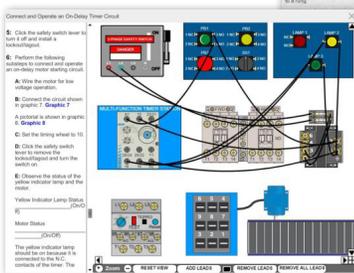
AC/DC Electrical



Hydraulics



Programmable Logic Controller (3D)



Electrical Motor Control



CNC Machine (3D)



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