AMATROL

Industry 4.0 Fundamentals (I4F)

Course 1
Introduction to Mechatronics
38 Lessons
Topics Include:
- Introduction to Industry 4.0
- Safety
- Hand Tools
- Measurement
- Print Reading
- Precision Measurement
- Mechanical Drives
- Fluid Power
- AC/DC Electricity
- Electrical Relay Control
- Robotics Programming
- Electronic Sensors

Course 2
Introduction to Industrial Control Systems
33 Lessons
Topics Include:
- Industry 4.0 Principles
- Mechanical Drives
- Hydraulics Fluid Power
- Pneumatics
- Robotics Programming
- Electrical Relay Control
- Electronic Sensors
- Ethernet Network Communications
- Programmable Controllers
- CNC Programming
- Mechatronic Systems

Course 3
Robot Operation & Programming
Topics Include:
- Robotic Safety & Components
- Frames
- Program Development
- Inputs, Outputs, and Macros
- And More!

Course 4
Introduction to Industrial Internet of Things
28 Lessons
Topics Include:
- Advanced Programmable Controllers
- Data Analytics 1
- Variable Frequency Drives
- Bar Code Production Identification
- Mechatronics: Motors & Conveyors
- Ethernet Network 2
- RFID Product Identification
- Smart Sensors
- Programmable Controllers
- System Optimization
- Mechatronics: Communication & ASRS
- PLC Troubleshooting

Certified Production Technician

And More!

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