INDUSTRIAL SYSTEMS TECHNOLOGY

Industrial Systems Technology combines mechanical skill and electronic skill with programming to prepare students to work in today's highly automated manufacturing facilities. This hands-on program focuses on teaching you the practical skills you will need in the real world. You will learn about motors that run conveyor belts, the sensors that trigger different actions, robots that carry out tasks, and the controllers that put it all together. We focus on operations, optimization, maintenance, troubleshooting, repair, and energy efficiency.

Career Opportunities with Local Industries:

- Power Generation (hydro, cogeneration, wind, solar, etc.)
- Data Ceneter Operations and Engineering (e.g., Facebook, Google, Amazon, etc.)
- Food Processing Industry Maintenance Mechanics and Personnel
- Wood Products Industry Maintenance

Other Career Opportunities:
Aerospace Development, Chemical Industries, Defense, Robotics, affecting a wide variety of industries and manufacturing processes

Estimated Salary

$40,000 - $70,000 a year

Degree

Associate of Applied Science (AAS) in Industrial Systems Technology (92 credits)

Certificates

Data Center Operations (42 credits)
Industrial Automation (39 credits)
Maintenance (34 credits)
Welding (37 credits)

Course Delivery

Online with hands-on training at BMCC's Workforce Training Center in Boardman and other locations. Start any term!

LEARN MORE ◆ www.bluecc.edu/IST

Contact

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Outreach@bluecc.edu
541-278-5921

Blue Mountain COMMUNITY COLLEGE
EDUCATION ◆ CONNECTED

2411 NW Carden Ave. ◆ PO Box 100, Pendleton ◆ OR 97801
541-276-1260 ◆ www.bluecc.edu

INDUSTRIAL SYSTEMS TECHNOLOGY

Industrial Systems Technology AAS

Year 1

Term 1: Fall
Intro to Industrial Systems Technology
Mechanical Drive Systems
Electrical Fundamentals for Non-Electricians
Industrial Shop Practices
Preventative Maintenance Management

Term 2: Winter
Print Reading for Welders
Bearing & Lubrication Systems
Programmable Logic Controllers I
Technical Math for Industrial Systems Techs
Basic Gas and Arc Welding or
Metals and Welding

Term 3: Spring
Human Communication
Industrial Print Reading
Industrial Safety
Industrial Pneumatic Systems
Programmable Logic Controllers II

Year 2

Term 4: Fall
Introduction to Business Computing or
Concepts of Computing
Computer Aided Drafting
Industrial Hydraulic Systems
Automated Material Handling

Term 5: Winter
Pre-Employment Seminar
Rigging and Lifting
Electric Motor and Controls Troubleshooting
Pumps & Valves
Elements of the Essay

Term 6: Spring
Physical Science/Energy
Process Control and Instrumentation
Capstone Project I

Career Pathways Certificates

CPC Industrial Systems Technology: Data Center Operations

Preventative Maintenance Management
Mechanical Drive Systems
Industrial Hydraulic Systems
Bearing and Lubrication Systems
Electric Motor and Controls Troubleshooting
Programmable Logic Controllers I
Pumps and Valves
HVAC System Controls
Data Denter Operations and Engineering
Elements of the Essay

CPC Industrial Systems Technology: Maintenance

Rigging and Lifting
Bearing and Lubrication Systems
Programmable Logic Controllers I
Industrial Hydraulic Systems
Pumps and Valves
Industrial Pneumatic Systems
Mechanical Drive Systems

CPC Industrial Systems Technology: Industrial Automation

Industrial Hydraulic Systems
Mechanical Drive Systems
Bearing and Lubrication Systems
Electric Motor and Controls Troubleshooting
Programmable Logic Controllers I
Programmable Logic Controllers II
Automated Material Handling
Process Control and Instrumentation

CPC Industrial Systems Technology: Welding

Mechanical Drive Systems
Industrial Hydraulic Systems
Print Reading for Welders
Programmable Logic Controllers I
Data Center Operations and Engineering
Metals and Welding or Basic Gas and Arc Welding
TIG Welding

Note: In addition to the courses detailed, all CPC Programs also include:

Introduction to Industrial Systems Technology, Industrial Safety, Preventative Maint. Mgt., Industrial Print Reading, Electrical Fundamentals for Non-Electricians, and Industrial Shop Practices

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