

Lehigh Carbon Community College
Industrial Automation Level 2
41 LAP's 217 Hour



Mechanical 2
(WB502-XD)

- Spur Gear Drives (LAP 6)
- Multiple Shaft Drives (LAP 7) (WB503-XD)
- Synchronous Belt Drives
- Precision Shaft Alignment
- Lubrication
- Conveyor Systems

Mechanical 3 (WB504-XD)

- Plain Bearings
- Ball Bearings
- Roller Bearings
- Antifriction Bearing Selection and Maintenance
- Gaskets and Seals
- Advanced Gear Drives
- Gear Drive Selection and Maintenance

Pneumatics 2
(WB835-BA-E2)

- Pneumatic DVC Applications
- Air Logic (WB838-XA)
- Moving Loads Pneumatically
- Vacuum Systems
- Air Compressors

Pneumatic Maintenance

- Maintenance (WB-835-BA)
- Intro to Pneumatic Construction (WB-894-E2)

Pneumatic Troubleshooting (EB546-BE)

- Introduction to Pneumatic Troubleshooting
- Air Preparation Troubleshooting
- Troubleshooting Pneumatic Cylinders
- Motor and Rotary Actuator Troubleshooting
- Troubleshooting DCV and Flow Control Valves
- Troubleshooting Vacuum Systems
- Troubleshooting Pneumatic Systems

Heavy Duty V-Belt and Chain Drives (WB503-XD)

- Heavy Duty V-Belt Drives
- V-Belt Selection and maintenance
- Heavy Duty Chain Drives

Electrical Motor Control 2 (V17901-CM)

- Introduction to Troubleshooting
- Systems Troubleshooting
- Reversing Motor Control
- Automatic Input Devices
- Basic Timer Control

Electro-Fluid Power 1(WB861-XB)

- Intro electric control systems
- Control Relays
- Sequencing Control

Programmable Controllers 2 (W4066-FE)

- Introduction to PLC Troubleshooting
- PLC Systems Troubleshooting
- Event Sequencing