

Lehigh Carbon Community College
Industrial Mechanical Technician Level 2
46 LAP's 230 Hour



Intermediate Pneumatics (WB835-BA-E2)

- Pneumatic DCV Applications
- Air Logic
- Pneumatic Maintenance

Advanced Pneumatics (WB-835-BA-E2)

- Moving Loads Pneumatically
- Vacuum Systems
- Air Compressors
- Pneumatic construction (WB894-XA)

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

Electrical Systems Control (VB703-XB)

- Control Logic
- Sequencing Control
- Timers and Advanced Systems

Mechanical Drives

- Spur Drives - WB502 (Lap 6)
- Multiple Shaft Drives - WB502 (Lap 7)
- Advanced Gear Drives- WB504(Lap 6)
- Gear Driver Selection and Maintenance WB504 - (Lap 7)

Mechanical Drives 4 (E19159-XA)

- Brakes and Clutches
- Brake Clutch Selection and Maintenance
- Linear Ball Bearings
- Ball Screw Drives
- Conveyor Systems – E18424

Laser Shaft Alignment (W18433)

- Introduction to Laser Alignment
- Laser Alignment Operations

Vibration Analysis (W18433)

- Introduction to Vibration Analysis
- Vibration Condition Monitoring
- Vibration Analysis

Electrical Motor Control (V170901-CM)

- Introduction to Electrical Motor Control
- Manual Motor Control and Overload Protection
- Control Transformers
- Control Ladder Logic
- Control Relays and Motor Starters
- Introduction to Troubleshooting
- Systems Troubleshooting
- Reversing Motor Control
- Automatic Input Devices
- Basic Timer Control On-Delay and Off-Delay

Central Lubrication (EB563-XC)

- Introduction to Central Lubrication
- Lubrication Concepts
- Series / Progressive Lubrication Systems
- Troubleshooting Lubrication Systems
- Piston Distributor Lubrication Systems