

Lehigh Carbon Community College
Industrial Electrical Technician Level 2
30 Laps, 150 Hours



Rotating Electric Machines (WB862)

- Rotating Electric Motors
- DC Shunt & Compound Motors
- Motor Speed & Torque
- Motor Performance
- Split-Phase AC Motors
- Capacitor Start AC Motors
- Permanent Capacitor & Two Capacitor Motor Operation
- Three-Phase AC Induction Motors

Electric Motor Control 2

- Braking Methods (W17402)
- Reduced Voltage Starting Circuits (W17403)
- Power Generation & Distribution (W17403)
- Electronic Sensors (W17404)
- Timers and Counters (W17405)

Variable Frequency Drives Powerflex 4 (W17911)

- Introduction to Variable Frequency AC Drives
- Speed and Torque control
- Acceleration, Deceleration and Braking
- Fault Diagnostics and Troubleshooting

DC Electronic Drives (E17422-XF)

- Introduction to DC Motor Control
- Basic DC Drives – SCR Control
- DC Spindle Drives
- Basic DC Axis Drives
- DC Pulse Width Modulation Drives
- Troubleshooting DC Drives

AC Electronic Drives (W17420-DG)

- Introduction to AC Drives
- Configuring A-B Powerflex 70 Drives
- A-B Powerflex 70 Control Parameters
- Communications and Diagnostics
- Troubleshooting A-B Powerflex 70
- Configuring and Troubleshooting A-B Powerflex 40
- Configuring and Troubleshooting Servo Drives