

Manufacturing Skills Training

Electronic Drives Training

This 20 hour course is designed to provide participants* with the skills required to safely install, program and troubleshoot modern AC variable frequency drives.

Instructional topics:

- The evolution of drive systems and their applications.
- Identify and learn the concepts of motion in motor drive systems.
- Understand the operational concepts of DC Motors and Drives.
- Gain in-depth knowledge of AC Drive system components, circuits and theory of operation.
- Identify and learn common drive control methods.
- Identify and apply common drive configuration commands.
- Understand and apply drive tuning methods.
- Maintenance and troubleshooting of drive systems.

Lab Exercises:

- Using a digital oscilloscope to observe drive signals.
- Uploading/downloading and saving drive parameters.
- Programming drive parameters.
- Working with various drive control methods.
- Motion control and master/slave configuration.
- Troubleshooting drives and controls.

*Employees participating in this training must have completed Applied Industrial Electricity or equivalent training.