

COURSE – L
INTRODUCTION TO INDUSTRIAL ELECTRONICS
(Level 12)

- TEXT BOOK:** Electrical Principles and Practices - Mazur/Zurlis
(supplied by Schaedler / YESCO Distribution)
- TOOLS/MATERIALS:** Students should bring the following to class:
- Calculator
- Textbook listed above
- Writing utensils and notepaper
- TIME FRAME:** Half-day session (4 Hours)
- PREREQUISITE(s):** Course-A, Basic Industrial Electrical Theory I (Level 1)
Course-B, Basic Industrial Electrical Theory II (Level 2)
Course-C, Industrial Electrical Math (Level 3)
Course-D, Using Multimeters (Level 4)
Course-E, Reading Electrical Schematics (Level 5)
Course-F, Component Identification (Level 6)
Course-G, Basic Industrial Electrical Theory III (Level 7)
Course-H, Basic Industrial Electrical Theory IV (Level 8)

General Sequence

Chapter 24 Electronic Control Devices

At the end of this training session, students should be able to.....

Chapter 24

- List the advantages of solid-state controls.
- Compare the difference in the atomic structures of conductors, insulators and semiconductors.
- List and describe common products of doping.
- List and describe common types of semiconductor devices.
- Describe the function and common applications of diodes.
- Describe the function and common types of transistors.
- List and describe common methods of transistor identification and installation.
- List and describe common transistor applications.
- Describe the function and operation of Silicon Controlled Rectifiers (SCRs).
- Describe the function and operation of Triacs and Diacs.