

COURSE – I
UNDERSTANDING LADDER LOGIC
(Level 9)

- 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-E, Reading Electrical Schematics (Level 5)
Course-G, Basic Industrial Electrical Theory III (Level 7)
Course-H, Basic Industrial Electrical Theory IV (Level 8)

General Sequence

- **Introduction**

- Chapter 10 Symbols and Print Reading (Review)**
- Chapter 21 Industrial Circuits**

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

Chapter 21

- Describe the function of industrial circuits.
- List and describe common methods of industrial circuit control.
- Describe a common industrial circuit application.
- List and describe the function and common elements of ladder diagrams.
- Describe the operation of a typical industrial circuit.
- Describe the function and operation of electric motor drives.
- Identify common methods used to control industrial circuits.
- Describe the differences between PLCs and Relay Logic.