COURSE – B BASIC INDUSTRIAL ELECTRICAL THEORY II (Level 2)

TEXT BOOK:	Electrical Principles and Practices - Mazur/Zurlis (Same text as Course-A)
TOOLS/MATERIALS:	Students should bring the following to class: - Calculator - Textbook listed above - Writing utensils and notepaper
TIME FRAME:	Half-day session (4 Hours)
PREREQUESITE (s):	Course-A, Basic Industrial Electrical Theory I (Level 1)

General Sequence

-	Introduction
Chapter 3	Ohm's Law and the Power Formula
Chapter 4	Electrical Safety

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

Chapter 3

- Calculate voltage, current, and resistance using Ohm's Law.
- Explain the voltage/current/resistance relationship according to Ohm's Law.
- Describe common applications of Ohm's law for troubleshooting circuits.
- Calculate power, voltage, and current using the power formula.
- Explain the power/current/voltage relationship according to the power formula.
- Describe common applications of the power formula.
- Explain how Ohm's law and the power formula can be combined to create additional formulas.

Chapter 4

- Define electric arc and related arc terms.
- Describe electrical shock and freeze or let go current.
- Describe common procedures for lockout/tagout and common lockout devices.