COURSE – G BASIC INDUSTRIAL ELECTRICAL THEORY III (Level 7)

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)
PREREQUESITE(s):	Course-A, Basic Industrial Electrical Theory I (Level 1) Course-B, Basic Industrial Electrical Theory II (Level 2)

General Sequence

Introduction

Chapter 11	Circuit Conductors, Connections, and Protection
Chapter 12	Series Circuits

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

Chapter 11

- List and describe common types of conductors and conductor materials.
- Describe common methods for bending conduit.
- List and describe common types of cable.
- Describe common procedures for removing wire insulation.
- Identify common methods for connecting conductors.
- List and describe common types of overcurrent conditions.
- List and describe common types of overcurrent protection devices.

Chapter 12

- Describe a series connection.
- Explain polarity in a series circuit.
- Describe the operation and function of switches in a series circuit.
- Calculate resistance, voltage, current, and power in a series circuit.
- Describe a common application of a series circuit.
- Describe the function of capacitors in a series circuit and calculate capacitance.
- Describe the function of inductors in a series circuit.
- Describe the function of batteries, and cells in a series circuit.