

COURSE OUTLINE

INTRODUCTION TO POWER DISTRIBUTION SYSTEMS

1. OVERVIEW OF COURSE.

2. TYPES OF SYSTEMS.
 - 2.1 Simple Radial System.
 - 2.2 Loop-Primary Radial System.
 - 2.3 Banked-Secondary Radial System.
 - 2.4 Primary-Selective Radial System.
 - 2.5 Secondary-Selective Radial System.
 - 2.6 Simple Network System.
 - 2.7 Primary-Selective Network.

3. SYSTEMS ANALYSIS.
 - 3.1 Short Circuit Currents.
 - 3.2 Fault Current Calculations.

4. TRANSFORMER IMPEDANCE.
 - 4.1 Transformer Secondary Circuits.

5. FORMULAS AND TERMS.

5.1 Reference Tables.

5.1.1 Conductor Ampacities.

5.1.2 Conductor Conduit Fill.

5.1.3 Conductor, Resistance, Reactance, Impedance.

5.1.4 Voltage Drop.

5.1.5 Selection of Switches and Breakers.

6. OVERCURRENT PROTECTION AND COORDINATION.

7. GROUNDING AND GROUND FAULT PROTECTION.

8. SECONDARY VOLTAGES.

9. COMPUTER POWER.

10. COURSE REVIEW AND SITE VISIT.