

Course Syllabus: Electrical Drawing and Blueprint Reading

Course Title: Electrical Drawing and Blueprint Reading

Program: Electrical Installation

Duration: 12 Weeks

Level: Introductory / Technical Vocational

Hours: 3 Hours per Week

Course Description

This course introduces students to the principles of **electrical drawing, blueprint interpretation, and circuit diagram representation**. Students will develop competencies in identifying electrical symbols, interpreting wiring and schematic diagrams, and producing accurate drawings for lighting and receptacle circuits used in residential and commercial installations.

Course Objectives

By the end of this course, students should be able to:

- Identify and interpret standard electrical symbols
 - Draw electrical schematic and wiring diagrams
 - Read and interpret blueprints for electrical installations
 - Design lighting and receptacle outlet circuit diagrams
 - Distinguish between schematic and wiring layouts
 - Apply industry-standard drawing conventions and safety codes
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Teaching and Learning Strategies

- Demonstration and guided drawing
 - Blueprint reading exercises
 - Practical sketching and diagram construction
 - Use of drawing instruments and CAD software (optinal)
 - Collaborative circuit interpretation activities
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Resources

- Drawing paper
- Ruler, T-square, pencils, eraser, circle template, French curves
- Electrical symbol chart
- Residential wiring blueprints
- CAD software (optional)
- Sample switches, outlets, lamps, and photocells diagrams