

ITSC 134: BLUEPRINTS, LEED, TITLE 24

Foothill College Course Outline of Record

| Heading | Value |
|------------------------------------|---|
| Units: | 0.5 |
| Hours: | 6 lecture, 3 laboratory per quarter (9 total per quarter) |
| Prerequisite: | Completion of recognized sound and communication apprenticeship or equivalent and recent employment as an installer/technician in the sound and communication industry. |
| Degree & Credit Status: | Degree-Applicable Credit Course |
| Foothill GE: | Non-GE |
| Transferable: | None |
| Grade Type: | Letter Grade (Request for Pass/No Pass) |
| Repeatability: | Not Repeatable |

Description

Covers reading blueprints, Leadership in Energy and Environmental Design (LEED), and energy efficiency standards.

Course Objectives

The student will be able to:

- Scale a drawing accurately
- Differentiate between extension lines and dimension lines
- Describe the function of plans and elevations
- Describe the function of sections and details
- Describe the purpose of the LEED program
- Identify the LEED certification levels
- Describe the purpose of Title 24

Course Content

- Introduction (Lec)
- Blueprint Reading (Lec and Lab)
 - Site plans
 - Floor plans
 - Elevations
 - Sections
 - Schedules and specifications
 - Symbols
 - Scaling
- LEED (Lec)
 - Credits
 - Certifications
 - Value
- Title 24 (Lec)
 - Energy efficiency
 - California Energy Code
 - California Green Building Standards Code

Lab Content

- Work individually and in teams with basic tools of the trade, test instruments and tool safety.
- Included will be the installation of sound and/or communication devices.
- Equipment safety and safe handling practices are reviewed and applied.

Special Facilities and/or Equipment

- Blueprint (Building drawings), architectural rulers.
- When taught via Foothill Global Access, on-going access to email software and hardware; email address.

Method(s) of Evaluation

- Results of assessments
- Results of quizzes and tests
- Discussion participation

Method(s) of Instruction

- Lecture
- Group discussion
- Demonstration

Representative Text(s) and Other Materials

[Blueprint Reading for Electricians](#), 3rd ed. MD: National Joint Apprenticeship and Training Committee, 2010.

NOTE: This is the standard Sound & Communications textbook/workbook used for this course. Although it may not be within 5 years of the required published date, it is the most current book used when teaching this course. We will adopt the next edition, as it is published.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

A. Reading assignment:

- Read [Blueprint Reading for Electricians](#) pp. 88-98

B. Writing assignments:

- Describe what floor plans are and how they are used by an electrical worker
- In your own words, describe how sections are used. Include how looking at a section drawing would benefit an electrical worker

Discipline(s)

Telecommunication Technology