

ATPT-2340: BLUEPRINTS II: ADVANCED READING AND ESTIMATING

Cuyahoga Community College

Viewing: ATPT-2340 : Blueprints II: Advanced Reading and Estimating

Board of Trustees:

2001-04-26

Academic Term:

Spring 2019

Subject Code

ATPT - Appld Indus Tech - Painting

Course Number:

2340

Title:

Blueprints II: Advanced Reading and Estimating

Catalog Description:

Advanced instruction in principles and application of blueprint reading including terminology, architectural drawings, engineering drawings, and application of specifications and schedules to painting crafts.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

ATPT-1650 Blueprints I: Construction Fundamentals, or departmental approval.

Outcomes

Course Outcome(s):

N/A

Objective(s):

1. Identify and interpret all objectives from Blueprints I: Construction Fundamentals.
2. Analyze a variety of architectural drawings including site and floor plans, elevation, section and detail drawings.
3. Interpret a variety of engineering drawings including structural, mechanical, plumbing, and electrical drawings.
4. Apply specifications and schedules from blueprints to painting, decorating, and drywall finishing trades.

Methods of Evaluation:

1. Quizzes
2. Exams
3. Classroom participation
4. Demonstration of project assignments

Course Content Outline:

1. Review Blueprints I: Construction Fundamentals
 - a. Fundamentals
 - i. definitions
 - ii. types of drawings
 - iii. specifications and schedules
 - b. Lines, symbols, scales, and dimensions
2. Basic architectural and engineering drawings
3. Reading architectural drawings
 - a. Site plan drawings
 - i. purposes
 - ii. contents
 - iii. information useful to painters
 - iv. terms
 - b. Floor plan drawings
 - i. elements of a building
 - ii. content
 - iii. relating floor plan to other drawings
 - c. Elevation drawings
 - i. content
 - ii. relating elevation views to building structure
 - iii. relating elevation views to other drawings
 - iv. use to painting crafts
 - d. Section and detail drawings
 - i. content and purposes
 - ii. relationship between section, detail, and other drawings
 - e. Opening and room finish schedules
 - i. content and purposes
 - ii. relationship between schedules and drawings in a set of prints
 - f. Specifications
4. Engineering drawings
 - a. Structural drawings
 - i. content and purposes
 - ii. representation of structural steel on prints
 - iii. terms
 - b. Mechanical drawings
 - i. content and purposes
 - ii. uses of information to painting crafts
 - c. Plumbing drawing
 - i. content and purposes
 - ii. uses of information to painting crafts
 - d. Electrical drawing
 - i. content and purposes
 - ii. uses of information to painting crafts

Resources

National Painting, Decorating and Drywall Apprenticeship and Manpower Training Fund. *Blueprint Reading for Painters and Drywall Finishers Instructor's Guide*. (Latest edition). Washington, DC: National Painting, Decorating and Drywall Apprenticeship Manpower Training Fund, 1976.

Sundberg, Elmer W. *Building Trades Blueprint Reading Part 1*. 5th Edition. Chicago: American Technical Society (Latest edition), 1972.

Sundberg, Elmer W. *Building Trades Blueprint Reading Part 2*. 2nd Edition. Chicago: American Technical Society, 1974.

Sundberg, Elmer W. *Building Trades Blueprint Reading Part 3*. (Latest edition). Chicago: American Technical Society, 1973.

Huth, Mark W. *Basic Construction Blueprint Reading*. 2nd Edition. Albany: Delmar Publishers, 1989.

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