

ATPT-1650: BLUEPRINTS I: CONSTRUCTION FUNDAMENTALS

Cuyahoga Community College

Viewing: ATPT-1650 : Blueprints I: Construction Fundamentals

Board of Trustees:

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Academic Term:

Spring 2019

Subject Code

ATPT - Appld Indus Tech - Painting

Course Number:

1650

Title:

Blueprints I: Construction Fundamentals

Catalog Description:

Introduction to basic principles of blueprint reading including terminology, types of drawings, specifications and schedules, lines, symbols, scales, dimensions, and uses for painting crafts.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

Admission to Painters and any Applied Industrial Technology program, or departmental approval.

Outcomes

Course Outcome(s):

N/A

Objective(s):

1. 1. Identify types of drawings, terminology, and uses of blueprints for painting crafts.
2. 2. Differentiate between different types of blueprints .
3. 3. Interpret lines, symbols, scales, and dimensions used on blueprints.
4. 4. Differentiate between various types of architectural and engineering drawings and read basic information from them.

Methods of Evaluation:

1. Quizzes
2. Exams
3. Classroom participation
4. Demonstration of assigned projects

Course Content Outline:

1. Fundamentals of blueprints and specifications
 - a. Definitions
 - i. terminology
 - ii. comparing prints and drawings
 - iii. uses of blueprints for craftsmen
 - iv. blueprint uses for painters and drywall finishers
 - b. Types of drawings in a set of blueprints

- i. major categories
 - ii. information found on:
 - 1. architectural drawings
 - 2. structural drawings
 - 3. mechanical drawings
 - 4. plumbing drawings
 - 5. electrical drawings
 - 6. drawings most useful to painters, decorators, and drywall finishers
 - c. Specifications and schedules
 - i. purposes
 - ii. contents
 - iii. specifications and schedules for painting crafts
2. Lines, symbols, scales and dimensions
- a. Types of lines used on blueprints
 - i. types of lines
 - ii. purposes
 - b. Types of symbols
 - i. meanings
 - ii. uses
 - c. Use of scales on drawings
 - i. meaning
 - ii. uses
 - iii. scaling a drawing
 - iv. terms
 - d. Reading dimensions from blueprints
 - i. types of dimensions
 - ii. dimensioning practices of architects
 - iii. terms
3. Basic architectural and engineering drawings
- a. Architectural drawings
 - i. site plan drawings
 - ii. floor plan drawings
 - iii. elevation drawings
 - iv. section and detail drawing
 - b. Engineering drawings
 - i. structural drawings
 - ii. mechanical drawings
 - iii. plumbing drawings
 - iv. electrical drawings

Resources

Hutch, Mark. *Understanding Construction Drawing*. 3rd Edition. Albany: Delmar, 1999.

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.

Putnam, Robert E. *Building Trades Blueprint Reading*. (Latest edition). Reston: Reston Publishing Co, 1986.

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.

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