

# ATFL-1450: FLOORLAYING CONCEPTS

## Cuyahoga Community College

**Viewing: ATFL-1450 : Floorlaying Concepts**

**Board of Trustees:**

September 2025

**Academic Term:**

Fall 2025

**Subject Code**

ATFL - Appld Indus Tech - Floorlaying

**Course Number:**

1450

**Title:**

Floorlaying Concepts

### **Catalog Description:**

Comprehensive study of floorlaying essentials, including material properties, measurement techniques, types and applications of various sheet good adhesives, identification and use of hand tools and power equipment used in the floorlaying industry. Also included are concepts commonly found in construction blueprints including symbols, abbreviations, and conventions required in drawing interpretation. Floor preparation for installations of tile, sheet goods, carpeting, hardwood, laminates and ceramics also included.

**Credit Hour(s):**

2

**Lecture Hour(s):**

2

### **Requisites**

#### **Prerequisite and Corequisite**

Departmental approval: Admissions to Floorlaying Technology apprenticeship program.

### **Outcomes**

**Course Outcome(s):**

Interpret blue prints for information related to preparing floors for installation.

**Objective(s):**

1. Interpret blue prints for information related to preparing floors for installation.
2. Recognize symbols related to floor preparation.
3. Interpret abbreviations used on blue prints.
4. Explain conventions required in drawing interpretation.

---

#### **Course Outcome(s):**

Evaluate any job situation and properly prepare floor for product installation including tile, sheet goods, carpeting, hardwood, laminates and ceramics.

**Objective(s):**

1. Prepare the floor for product.
2. Identify and demonstrate the proper use any hand tool used in the floorlaying industry.
3. Safely demonstrate the operation of any power tool used for wall and floor installation and safely handle materials.
4. Identify material used for wall and floor coverings including those required for surface preparation.
5. Use construction working and shop drawing required for wall and floor finishes.
6. Evaluate any job situation and properly prepare floor for product installation including tile, sheet goods, carpeting, hardwood, laminates and ceramics.
7. Perform calculations used in the floor finishes industry and apply standard math concepts as necessary.

8. Apply math concepts to determine measurements and estimate material requirements.
9. Evaluate the job.

---

**Methods of Evaluation:**

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

**Course Content Outline:**

1. Concepts
  - a. Job evaluation
  - b. Subfloor requirements.
  - c. Moisture testing techniques
  - d. Blueprint reading techniques
  - e. Material estimation techniques
  - f. Tool safety related to floor covering installation
  - g. Adhesive requirements
  - h. Materials and transitions used in the flooring industry
    - i. Tools used in the flooring industry
    - j. Square footage calculations
    - k. Lineal footage calculations
    - l. Square yardage calculations
  - m. Measurement conversions
  - n. Material properties
  - o. Measurement techniques
  - p. Hand tool operation procedures
  - q. Symbols
  - r. Abbreviations
  - s. Drawing interpretation conventions
  - t. Floor preparation techniques
2. Skills
  - a. Reading blueprints for room location, material, color and pattern.
  - b. Evaluating the job.
  - c. Preparing subfloor.
  - d. Selecting proper adhesive and trowel notch size.
  - e. Using of hand and power tools.
  - f. Installing transitions.
  - g. Calculating square footage, lineal footage, square yardage and perimeter.
  - h. Measuring materials.
    - i. Operate router to install sheet goods.
    - j. Operate welder to install sheet goods.
    - k. Operate seam iron for carpet installation
    - l. Operate power stretcher for carpet installation
  - m. Operate staple gun.
  - n. Operate wet saw.
  - o. Operate drill motor
  - p. Operate grinder
  - q. Operate saws.
  - r. Operate nailers.

**Resources**

Carpenters International Training Fund. *Standard Skills for Floor Coverers: Part 1*. Carpenters International Training Fund, Las Vegas, NV, 2012.

---

Carpenters International Training Fund. *Carpet 1*. Carpenters International Training Fund, Las Vegas, NV, 2010.

---

Carpenters International Training Fund. *Resilient 1*. Carpenters International Training Fund, Las Vegas, NV, 2012.

---

National Wood Flooring Association. *Wood Flooring Installation Guidelines*. St. Louis, MO: NWFA, 2019.

---

#### Resources Other

Carpenter's International Training Fund. <https://www.carpenters.org/citf-training/> . 2024.

National Wood Flooring Association, <https://nwfa.org/technical-guidelines/>. 2024.

Top of page

Key: 329