# ATFL-1630: WOOD FLOORING I

## Cuyahoga Community College

**Viewing: ATFL-1630 : Wood Flooring I**

**Board of Trustees:**
September 2025

**Academic Term:**
Fall 2025

**Subject Code**
ATFL - Appld Indus Tech - Floorlaying

**Course Number:**
1630

**Title:**
Wood Flooring I

**Catalog Description:**
Wall and floor treatment, grouting and installation of ceramic tile. Includes related math and blueprint reading exercises.

**Credit Hour(s):**
2

**Lecture Hour(s):**
2

## Requisites

**Prerequisite and Corequisite**

ATFL-1450 Floorlaying Concepts or concurrent enrollment; or departmental approval: Admissions to Floorlaying Technology apprenticeship program.

## Outcomes

**Course Outcome(s):**

Layout, install, and finish wood flooring products and various wood trims using proper hand and power tools in accordance with established safety procedures and jobsite specifications.

**Objective(s):**

1. Identify various material types used in wood flooring.
2. Cut doors as needed to accommodate wood installation.
3. Identify the requirements for a subfloor/ List various subfloor requirements.
4. Demonstrate safe and proper use of portable power and hand tools.
5. Demonstrate moisture testing techniques.
6. Use math concepts for material layout and calculating material requirements.
7. Identify/Determine subfloor requirements.
8. Demonstrate installation techniques for various wood trims.
9. Demonstrate installation techniques for strip, strip and plank, and parquet floors.
10. Demonstrate sand and finish techniques.
11. Differentiate between various woods and the appropriate uses for each.

**Course Outcome(s):**

Interpret construction drawings for information related to the layout and installation of wood flooring products.

**Objective(s):**

1. Recognize symbols related to wood flooring job specifications.
2. Interpret scale references correctly.
3. Convert measurements from metric to standard and vice versa.

**Methods of Evaluation:**

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

**Course Content Outline:**

1. Concepts
    a. Wood flooring and related manufacturing process
    b. Characteristics of various types of wood
    c. Advantages/Disadvantages of various woods
    d. Characteristics of various adhesives
    e. Subfloor requirements.
    f. Moisture testing techniques
    g. Leveling techniques
    h. Bridging techniques
    i. Material acclimation
    j. Math concepts used for laying out wood floors
    k. Blueprint reading techniques
    l. Tools used to cut and sand wood flooring
    m. Cutting door to accommodate wood flooring
    n. Door reinstallation techniques
    o. Sand and finish sequences
    p. Strip floor installation techniques
    q. Parquet installation techniques
    r. Trim installation techniques
    s. Square footage calculations
2. Skills
    a. Reading blueprints for room location and type of wood to be installed
    b. Estimating material requirements - square footage
    c. Identifying subfloor requirements
    d. Testing for moisture
    e. Leveling floor surface
    f. Bridging between floor surfaces
    g. Laying out and installing a strip floor and parquet floor.
    h. Installing trims as applicable.
    i. Sanding and finishing wood floor per manufacturer recommendations.
    j. Cutting, leveling and reinstalling doors as needed.
    k. Using a coping saw
    l. Using a jamb saw
    m. Using a tapping block
    n. Using a pull bar
    o. Operating a circular saw
    p. Operating a mitre saw
    q. Operating a router
    r. Operating a table saw
    s. Operating a compressor
    t. Operating a nailer

## Resources

*Wood Flooring Installation Guidelines*. NWFA, St. Louis, Missouri, 2019.

*Moisture and Wood*. NWFA, St. Louis, Missouri, 2019.

Wood Species. NWFA, St. Louis, Missouri, 2019.

*Wood Flooring Sand and Finish Guidelines*. NWFA, St. Louis, Missouri, 2016.

*Ornamental Floors*. NWFA, St. Louis, Missouri, 2015.

**Resources Other**

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

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