

Department:

Construction Technology

Course Description:

The attractiveness of a home is often determined by the quality of its finish. Care needs to be taken in selecting the materials to finish the interior of the home. This course describes the various materials used for insulating the home, finishing the walls and ceilings, and cabinetry.

Course Competencies:

Upon completion of the course, the student should be able to:

1. Thermal and Moisture Protection
 - a. Describe the requirement for insulation.
 - b. Describe the characteristics of various types of insulation materials.
 - c. Calculate the required amounts of insulation for a structure.
 - d. Install selected insulation materials.
 - e. Describe the requirements for moisture control and ventilation.
 - f. Install selected vapor barriers.
 - g. Describe various methods of waterproofing.
 - h. Describe air infiltration control requirement.
 - i. Install selected building wraps.
 - j. Identify various properties of cement.
2. Interior Wall and Ceiling Finish
 - a. State the difference between the six levels of finish established by industry standards.
 - b. Identify the hand tools used in drywall finishing.
 - c. Identify the materials used in drywall finishing.
 - d. Properly finish drywall using hand tools.
 - e. Identify various types of problems that occur in drywall finishes.
 - f. Patch damaged drywall.
 - g. Apply painted finishes.
 - h. Apply lacquers and varnishes.
3. Finish Flooring
 - a. Identify various types of floor finishes including sizes and grades.
 - b. Determine the number of board feet of strip flooring needed to cover a given area.
 - c. Install resilient tile.
 - d. Identify various types of self-adhering tiles.
 - e. Install ceramic tile.
4. Cabinetmaking
 - a. Identify parts of manufactured cabinet.
 - b. Identify woods and materials used in cabinet construction.
 - c. Identify hardware used in constructing cabinets.
 - d. Install cabinets.

Course Content:

- A. Thermal and Sound Insulation
- B. Interior Wall and Ceiling Finish
- C. Finish Flooring
- D. Cabinetmaking

Learning Assessments:

Competencies will be assessed by assignments, case problems, quizzes, chapter tests, hands-on projects, lab assignments, a midterm test, and a final test. The test can be in the objective format or in a problem solving format.

Instructional Materials:

Textbook: NCCER. (2014). *Carpentry Framing & Finish Level 2 Trainee Guide* (5th ed.). Boston, MA: Pearson. ISBN-13: 978-0133404302

Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students **must** complete the “Disabilities Self-Identification Form” on our [Disability Services website](#).

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.

A Note on Harassment, Discrimination and Sexual Misconduct

Highland Community College seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX, and College policy prohibit harassment, discrimination and sexual misconduct. Highland Community College encourages anyone experiencing harassment, discrimination or sexual misconduct to talk to report to the Vice President for Student Services, the Human Resources Director or complete an [online report](#) about what happened so that they can get the support they need and Highland Community College can respond appropriately.

There are both confidential and non-confidential resources and reporting options available to you. Highland Community College is legally obligated to respond to reports of sexual misconduct, and therefore we cannot guarantee the confidentiality of a report, unless made to a confidential resource. Responses may vary from support services to formal investigations. As a faculty member, I am required to report incidents of sexual misconduct and thus cannot guarantee confidentiality. I must provide our Title IX coordinator with relevant details such as the names of those involved in the incident. For more information about policies and resources or reporting options, please review our [Equity Grievance Policy](#).