

## Department:

Construction Technology

## Course Description:

This course covers the tools and materials required for the Building Trades. Students will be introduced to wood and lumber, engineered panels, and engineered lumber products, fasteners, hand tools, portable power tools, and stationary power tools. Students will begin to safely operate hand and power tools. This course covers the safety and job hazards for the building trades industry. Students will identify types of job hazards, accident prevention measures, lists classes of fires, be familiar with a fire extinguisher, demonstrate proper methods of lifting, list forms of eye protection, learn ways to protect hands when working with a table saw.

## Course Competencies:

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

1. Demonstrate tool awareness.
2. Uses basic construction tool safety.
3. Follow general safety rules.

## Course Content:

- A. Importance of Safety
  1. Safety Culture
  2. Safety Rules
- B. Accident Causes & Results
  1. Accident Costs
    - a) Poor Work Habits
    - b) Alcohol and Drug Abuse
    - c) Lack of Skill
    - d) Intentional Acts
    - e) Unsafe Acts
    - f) Rationalizing Risk
    - g) Unsafe Conditions
- C. Company Safety Policies
- D. Power Drills
- E. Circular Saws
- F. Grinders & Sanders
- G. Power Nailers

## 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: The National Center for Construction Education and Research (NCCER) (2015). *Core Curriculum Trainee Guide, Introductory Craft Skills*, (5<sup>th</sup> ed.). New York, NY: Pearson. ISBN-13: 978-0-13-413143-6

### **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](#).