Department:

Building Trades

Course Description:

This course provides an introduction to the tools and materials required in the building trades. The course will cover wood and lumber, engineered panels, engineered lumber products, fasteners, hand tools, portable power tools, and stationary power tools. Emphasis will be placed on the safe operation of hand and power tools as well as job hazards and safety in the building trades industry.

Course Competencies:

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

1. Identify types of job hazards.
2. List and explain accident prevention measures.
3. List and explain the classes of fires.
4. Demonstrate the proper use of a fire extinguisher.
5. Demonstrate proper methods of lifting.
6. Describe the various forms of eye protection.
7. Explain how to protect the hands when working with a table saw.
8. Demonstrate the safe and effective use of various tools.
9. Apply basic construction tool safety principles.
10. Follow general safety rules.

Course Content:

A. Importance of Safety
   1. Safety Culture
   2. Safety Rules
B. Accident Causes and Results
   1. Accident Costs
   2. Poor Work Habits
   3. Alcohol and Drug Abuse
   4. Lack of Skill
   5. Intentional Acts
   6. Unsafe Acts
   7. Rationalizing Risk
   8. Unsafe Conditions
C. Company Safety Policies
D. Power Drills
E. Circular Saws
Learning Assessments:

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

Instructional Materials:

Core Curriculum, Introductory Craft Skills, Contren Learning Series, Pearson Hall.

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” at this link: https://highlandcc.edu/pages/disability-services.

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.