Department:

Automotive Technology

Course Description:

The course is designed to provide an introduction and orientation on the use of hand tools and power tools as well as other equipment used in the automotive technology field. Emphasis will also be placed on shop safety.

Course Competencies:

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

1. Demonstrate safe use and maintenance of general hand tools.
2. Demonstrate safe use and maintenance of specific auto collisions hand tools.
3. Demonstrate safe use and maintenance of electric and pneumatic hand tools.
4. Demonstrate safe use and maintenance of electric, pneumatic, and hydraulic equipment.
5. Describe and demonstrate proper lifting and jacking techniques.

Course Content:

A. Careers in the Automotive Service Area
   1. Automotive Background and Review
   2. Careers in the Automotive Industry
   3. Working as a Professional Service Technician
   4. Technician Certification
B. Safety, Environmental, and Health Concerns
   1. Shop Safety
   2. Environmental and Health Concerns
C. Tools, Shop Equipment, and Measuring
   1. Fasteners and Thread Repair
   2. Hand Tools
   3. Power Tools and Shop Equipment
   4. Vehicle Lifting and Hoisting
   5. Measuring Systems and Tools

Learning Assessments:

Assessments may include quizzes, tests, project work, demonstrations, observations, weekly assignments, and written papers.
AUT 102: Orientation and Shop Safety
Prerequisite: None
1 Credit Hour (Lecture)

Instructional Materials:

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.