Department:

Industrial Welding Technology

Course Description:

This course will continue instruction and experience in blueprint reading related to industrial welding.

Course Competencies:

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

1. Identify threaded fasteners.
2. Distinguish screw thread series, classes, and designation.
3. Identify non-threaded fasteners.
4. Interpret structural steel shapes and symbols.
5. Identify pipe representation on prints.

Course Content:

A. Threaded Fasteners
   1. Screw thread series
   2. Thread representation
B. Non-threaded Fasteners
C. Pipe welding
   1. Pipe welding representation
   2. Pipe connections
   3. Pipe classification
   4. Pipe welding process
   5. Pipe welding standards
D. Welding Metallurgy
   1. Metal structure
   2. Metal identification
   3. Heat-Affected zone

Learning Assessments:

Course competencies will be assessed by quizzes, tests, project work, demonstrations, observation, assignments, and written papers.
Instructional Materials:

ISBN: 9780826930514

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.