

Washtenaw Community College Comprehensive Report

IWA 172 Introduction to Structural Features Proposed start term: Fall 2010

Course Cover

Division: Vocational Technologies
Department: United Association Department
Discipline: International Association of Iron Workers
Course Number: 172
Org Number: 19100
Full Course Title: Introduction to Structural Features
Transcript Title: Intro to Structural Features
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Web Page
Reason for Submission: New Course
Change Information:
Rationale: New course in the articulation agreement with the Ironworkers' Local Union No. 25
Proposed Start: Fall 2010

Course Description: This course provides an overview of the structural features of a building. Students will also be introduced to instruments, tools and fasteners with a focus on leveling and anchors. Topics include erecting columns, band beams, joists and trusses, plumbing and aligning, decking and various types of bolts. Classroom training will be supplemented with hands-on experience. This course is only available for Ironworker apprentices through the Local 25 training center.

Course Credit Hours

Variable hours: No
Credits: 4
Lecture Hours: Instructor: 60 Student: 60
Lab: Instructor: 0 Student: 0
Clinical: Instructor: 0 Student: 0
Other: Instructor: 0 Student: 0
Total Contact Hours: Instructor: Student:
Repeatable for Credit: NO
Grading Methods: Letter Grades
Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

Requisites

Enrollment Restrictions

This course is taught at the Ironworkers 25 training center and is only open to apprentices accepted into a program.

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

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1. Identify hand and power tools.

Assessment 1

Assessment Tool: Training center instructors and contractors (employers) provide paper feedback evaluation forms for apprentice skill performance reviews.

Assessment Date: Fall 2012

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Apprentice evaluation feedback forms are filled out by the employing contractor and Joint Apprentice Training Committee (JATC) instructor.

Standard of success to be used for this assessment: The standard of success is set by the local Joint Apprentice Training Committee (JATC) in accordance with national and regional standards.

Who will score and analyze the data: The data is analyzed by the Joint Apprentice Training Committee (JATC) as a committee.

2. Identify structural steel components.

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3. Unload, erect and connect fabricated iron members to form the skeleton of a structure according to drawings using appropriate safety and setup.

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Course Objectives

1. Objectives and methods of evaluation follow the curriculum set out by the Joint Apprentice Training Committee (JATC).

Methods of Evaluation

Other

Additional Evaluation Information: This course is assessed externally by the local's Joint Apprentice Training Committee (JATC) consisting of industry representatives and Ironworker members. The local receives feedback on needed technical updates and apprentices' skill performance.

Matched Outcomes

1. Identify hand and power tools.
2. Identify structural steel components.
3. Unload, erect and connect fabricated iron members to form the skeleton of a structure according to drawings using appropriate safety and setup.

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software
Other

Equipment/Facilities

Other: Ironworkers Local 25 Training Center