Washtenaw Community College Comprehensive Report

IWA 141 Introduction to Reinforcing Ironwork
Proposed start term: Fall 2010

Course Cover

Division: Vocational Technologies
Department: United Association Department
Discipline: International Association of Iron Workers
Course Number: 141
Org Number: 19100
Full Course Title: Introduction to Reinforcing Ironwork
Transcript Title: Intro to Reinforcing Ironwork
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 is an overview of reinforcing ironwork for new apprentices. Topics include material property and related CRSI and ACI codes and specifications. Students will develop additional blueprint reading skills specific to reinforcing steel. Various types of structures will be reviewed and students will be introduced to splicing and coupling. This course is only available for Ironworker apprentices through the Local 25 training center.

Course Credit Hours

Variable hours: No
Credits: 3
Lecture Hours: Instructor: 45 **Student:** 45
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

dr logged 3/10/10 sj

1. Identify the physical properties and material specifications of structures and structural components.
   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. Recognize re-steel print specifications in mats, columns, beam slabs and walls according to Concrete Reinforcing Steel Institute (CRSI) and American Concrete Institute (ACI) codes and regulations.
   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.
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   Who will score and analyze the data: The data is analyzed by the Joint Apprentice Training Committee (JATC) as a committee.

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 the physical properties and material specifications of structures and structural components.

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software
Other

Equipment/Facilities

Other: Ironworkers Local 25 Training Center