

Washtenaw Community College Comprehensive Report**IWA 191 Reinforced Iron and Structures for Rigging
Proposed start term: Fall 2010****Course Cover****Division:** Vocational Technologies**Department:** United Association Department**Discipline:** International Association of Iron Workers**Course Number:** 191**Org Number:** 19100**Full Course Title:** Reinforced Iron and Structures for Rigging**Transcript Title:** Reinforced Iron Structure Rigg**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. Reinforcing iron topics include material property and related CRSI and ACI codes and specifications. Structural topics include erecting columns and beams, joists and trusses, plumbing and aligning, decking and various types of bolts. 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**

JN logged 8/11/10 s/r

1. Identify the physical properties and material specifications of structures and structural steel 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 the Concrete Reinforcing Steel Institute (CRSI) and American Concrete Institute (ACI) codes and regulations in reinforcing steel.

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.

3. Recognize the objectives of the American Institute of Steel Construction (AISC) advanced erector certification checklist items.

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.

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 steel components.
2. Recognize the Concrete Reinforcing Steel Institute (CRSI) and American Concrete Institute (ACI) codes and regulations in reinforcing steel.
3. Recognize the objectives of the American Institute of Steel Construction (AISC) advanced erector certification checklist items.

New Resources for Course**Course Textbooks/Resources**

Textbooks
Manuals
Periodicals
Software
Other

Equipment/Facilities

Other: Ironworkers Local 25 Training Center.