

Washtenaw Community College Comprehensive Report

IWT 214 Structural Steel Erection Conditional Approval Effective Term: Fall 2011

Course Cover

Division: Vocational Technologies

Department: United Association Department

Discipline: Ironworker Instructor Training

Course Number: 214

Org Number: 28700

Full Course Title: Structural Steel Erection

Transcript Title: Structural Steel Erection

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Web Page

Reason for Submission: New Course

Change Information:

Rationale: This course is part of the Ironworker ITP.

Proposed Start Semester: Fall 2011

Course Description:

The objective of this course is to enable participants to build a structural steel erection program to meet the participants' needs with the goal of enhancing their overall work performance. Topics covered will be taken from the new structural training package with emphasis on general safe erection practices and procedures, tools and equipment, planning and scheduling, material handling, bolting up, and plumbing and aligning. Limited to Ironworker Instructor Training program participants.

Course Credit Hours

Variable hours: No

Credits: 1.5

The following Lecture Hour fields are not divisible by 15: Student Min ,Instructor Min

Lecture Hours: Instructor: 22.5 Student: 22.5

Lab: Instructor: 0 Student: 0

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 22.5 Student: 22.5

Repeatable for Credit: NO

Grading Methods: Letter Grades

Audit

Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Requisites

General Education

Degree Attributes

Below College Level Pre-Reqs

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Set up and demonstrate structural steel erection practices and procedures.

Assessment 1

Assessment Tool: Survey of Ironworker training coordinators/supervisors.

Assessment Date: Fall 2012

Assessment Cycle: Every Two Years

Course section(s)/other population: All

Number students to be assessed: Random sampling of 50% of all students teaching related topics the subsequent year.

How the assessment will be scored: The student's training activities at the home local will be scored and evaluated on a survey questionnaire covering the learning outcomes.

Standard of success to be used for this assessment: Based on the number of students who teach the related material in the subsequent year, 75% will score an average of satisfactory or better.

Who will score and analyze the data: The UA Program Administrator will coordinate the collection of data with the Ironworker Training Department and will discuss the results with the Ironworker Training Department and IWT faculty.

2. Deliver safety and other related structural steel erection related lectures.

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3. Effectively use the Ironworker and vendor training materials.

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Course Objectives

1. Demonstrate structural steel erection practices and procedures

Methods of Evaluation

Matched Outcomes

1. Set up and demonstrate structural steel erection practices and procedures.

2. Demonstrate the use of tools and equipment in structural steel erection procedures

Methods of Evaluation

Matched Outcomes

1. Set up and demonstrate structural steel erection practices and procedures.

3. Demonstrate correct material handling, bolting up, and plumbing aligning practices

Methods of Evaluation

Matched Outcomes

1. Set up and demonstrate structural steel erection practices and procedures.

4. Explain safety precautions and regulations that apply to structural steel erection

Methods of Evaluation

Matched Outcomes

2. Deliver safety and other related structural steel erection related lectures.

5. Explain planning and scheduling processes necessary in a structural steel erection job

Methods of Evaluation

Matched Outcomes

2. Deliver safety and other related structural steel erection related lectures.

6. Describe the components used in structural steel erection

Methods of Evaluation

Matched Outcomes

2. Deliver safety and other related structural steel erection related lectures.

7. Identify the step-by-step procedures used in structural steel erection

Methods of Evaluation

Matched Outcomes

2. Deliver safety and other related structural steel erection related lectures.

8. Reference Ironworker and vendor supplied manuals during lectures and demonstrations

Methods of Evaluation

Matched Outcomes

3. Effectively use the Ironworker and vendor training materials.

9. Apply Ironworker and vendor training material guidelines and concepts

Methods of Evaluation

Matched Outcomes

3. Effectively use the Ironworker and vendor training materials.

New Resources for Course

All required materials will be provided by the Ironworker Training Department.

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

Level III classroom

Reviewer

Action

Date

Faculty Preparer:

Faculty Preparer

*May 05,
2011*

Department Chair/Area Director:

Daniel Welch

Recommend Approval

*May 05,
2011*

Dean: *Daniel Welch*

Request Conditional Approval

*May 05,
2011*

Vice President for Instruction: *Stuart*

Blacklaw

Conditional Approval

*May 06,
2011*