

Washtenaw Community College Comprehensive Report

IWT 211 Rigger Trainer Development Program Conditional Approval Effective Term: Fall 2011

Course Cover

Division: Vocational Technologies

Department: United Association Department

Discipline: Ironworker Instructor Training

Course Number: 211

Org Number: 28700

Full Course Title: Rigger Trainer Development Program

Transcript Title: Rigger Trainer

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:

This Rigger Trainer Development Program will cover fundamental and advanced rigging concepts with emphasis on proper rigging techniques per ASME (American Society of Mechanical Engineers), OSHA, and manufacturing recommendations. Each course session will incorporate both a classroom presentation as well as the opportunity to work in a workshop setting to solve various real-world rigging problems. Participants will be instructed on the new B30.26 "Rigging Hardware" standard that went into effect in 2006, and information will be shared on the B30.9 "Sling" update. Other topics discussed will be proper selection and application of blocks, plate clamps, steer erection standard, rigging math, and a computer tools workshop to make participants aware of the various Crosby Rigging CD-ROMs that may be used to educate others. 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 rigging equipment and systems using approved processes.

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. Delivery safety and rigging systems related lecture material.

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.

3. Effectively use the Ironworker and vendor training materials.

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.

Course Objectives

1. Assemble rigging systems

Methods of Evaluation
Matched Outcomes

2. Demonstrate correct rigging practices

Methods of Evaluation
Matched Outcomes

3. Demonstrate the correct use of rigging tools and equipment

Methods of Evaluation
Matched Outcomes

4. Explain safety precautions and regulations that apply to rigging techniques

Methods of Evaluation
Matched Outcomes

5. Describe the proper selection and application of rigging tools

Methods of Evaluation
Matched Outcomes

6. Compute related rigging math

Methods of Evaluation
Matched Outcomes

7. Explain the B30.26 "Rigging Hardware" standard and the B30.9 "Sling" update

Methods of Evaluation
Matched Outcomes

8. Reference Ironworker, American Society of Mechanical Engineers, and OSHA materials

Methods of Evaluation

Matched Outcomes

9. Reference Crosby training materials including the Training Workbook, 18-panel Rigging Card, CD-ROM 2008 Catalog, Block DVD, Steel Erection Standard PowerPoint CD-ROM, B30.26 and B30.9 CD-ROM, Plate Clamp DVD, and CD-ROM User's Guide for Lifting

Methods of Evaluation Matched Outcomes

New Resources for Course

All required materials will be provided by the Ironworker Instructor Training Program.

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

Level III classroom

Reviewer

Faculty Preparer:

Department Chair/Area Director:
Daniel Welch

Dean: *Daniel Welch*

Vice President for Instruction: *Stuart Blacklaw*

Action

Faculty Preparer

Recommend Approval

Request Conditional Approval

Conditional Approval

Date

*May 05,
2011*

*May 05,
2011*

*May 05,
2011*

*May 06,
2011*