

# Washtenaw Community College Comprehensive Report

## IWT 208 Operating Layout Instruments Conditional Approval Effective Term: Fall 2011

### Course Cover

**Division:** Vocational Technologies

**Department:** United Association Department

**Discipline:** Ironworker Instructor Training

**Course Number:** 208

**Org Number:** 28700

**Full Course Title:** Operating Layout Instruments

**Transcript Title:** Operating Layout Instruments

**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 course will provide the necessary skills to use layout equipment during the erection of all facets of the Ironworking trade (e.g., structural steel, precast concrete, curtain wall/window wall, metal buildings, and rebar). The course will consist of hands-on training using several different types of instruments. 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 the use of layout instruments and equipment.

#### **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 layout instrument and equipment use material in lectures.

#### **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. Demonstrate how layout instruments and equipment are used during the erection of all facets of the Ironworking trade including structural steel, precast concrete, and curtain walls/window walls

### **Methods of Evaluation Matched Outcomes**

2. Demonstrate how to use layout instruments and equipment while erecting metal buildings and rebar

### **Methods of Evaluation Matched Outcomes**

3. Explain safety precautions and regulations that apply to layout instrument and equipment use during ironworker jobs and processes

### **Methods of Evaluation Matched Outcomes**

2. Deliver safety and other layout instrument and equipment use material in lectures.

4. Describe the components included in layout instrument and equipment use

### **Methods of Evaluation Matched Outcomes**

2. Deliver safety and other layout instrument and equipment use material in lectures.

5. Explain the step-by-step procedures included in layout instrument and equipment use

### **Methods of Evaluation Matched Outcomes**

2. Deliver safety and other layout instrument and equipment use material in lectures.

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

### **Methods of Evaluation Matched Outcomes**

3. Effectively use the Ironworker and vendor training materials.

7. 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**

**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*