

# Washtenaw Community College Comprehensive Report

## IWT 219 Certified Welding Inspector Recertification Course Conditional Approval Effective Term: Fall 2011

### Course Cover

**Division:** Vocational Technologies

**Department:** United Association Department

**Discipline:** Ironworker Instructor Training

**Course Number:** 219

**Org Number:** 28700

**Full Course Title:** Certified Welding Inspector Recertification Course

**Transcript Title:** Certified Welding Inspector

**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 review course is designed to prepare previously certified welding inspector for their 9-year recertification examination. A representative of the American Welding Society will administer the required section of the CWI examination to participants on the final day of the course. Limited to Ironworker Instructor Training program participants.

### Course Credit Hours

**Variable hours:** No

**Credits:** 4

**Lecture Hours: Instructor: 30 Student: 30**

**Lab: Instructor: 30 Student: 30**

**Clinical: Instructor: 0 Student: 0**

**Total Contact Hours: Instructor: 60 Student: 60**

**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

**Prerequisite**

Previously certified as a CWI and requiring a 9-year recertification

### General Education

**Degree Attributes**

Below College Level Pre-Reqs

## Request Course Transfer

Proposed For:

### Student Learning Outcomes

1. Conduct welding inspections.

#### **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. Conduct welding tests.

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3. Utilize approved industry and course training materials to conduct the welding certification inspections and tests at the local level.

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## **Course Objectives**

1. Use AWS standards to determine how to conduct welding inspections

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

2. Inspect welds according to AWS standards

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

3. Use AWS standards to determine how to conduct welding tests

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

4. Conduct welding tests according to AWS standards

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

5. Reference Ironworker and vendor supplied manuals during lectures , inspections, and demonstrations

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

6. Apply Ironworker and vendor training material guidelines and concepts

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

## **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  
Other: Welding Lab

**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*