

## Washtenaw Community College Comprehensive Report

### UAT 199 Operation of Destructive Cutting and Strap Bending Equipment for UA Weld Test (UA 8042) Effective Term: Spring/Summer 2018

#### Course Cover

**Division:** Advanced Technologies and Public Service Careers

**Department:** United Association Department

**Discipline:** United Association Training

**Course Number:** 199

**Org Number:** 28200

**Full Course Title:** Operation of Destructive Cutting and Strap Bending Equipment for UA Weld Test (UA 8042)

**Transcript Title:** Strap Bending Weld Test (8042)

**Is Consultation with other department(s) required:** No

**Publish in the Following:**

**Reason for Submission:** New Course

**Change Information:**

**Rationale:** New U.A. Course

**Proposed Start Semester:** Spring/Summer 2018

**Course Description:** In this course, students will perform the safe handling and operation of weld test equipment as verified by a United Association Authorized Testing Representative of Certified Weld Inspectors. Attendees will review procedures of weld testing by ASME code requirements for bend and destructive cutting test of equipment at the regional Authorized Testing Facility. Limited to United Association 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**

**The following Lab fields are not divisible by 15: Student Min, Instructor Min**

**Lab: Instructor: 1.5 Student: 1.5**

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

**Total Contact Hours: Instructor: 24 Student: 24**

**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. Safely operate the Wrap Around Bender and equipment for testing United Association welds for certification.

### **Assessment 1**

Assessment Tool: Skills demonstration

Assessment Date: Spring/Summer 2018

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Skills demonstration checklist

Standard of success to be used for this assessment: 90% of students will score 100%

Who will score and analyze the data: UA training coordinator

2. Safely operate the Destructive Triangle Cutter and equipment for testing United Association welds for certification.

### **Assessment 1**

Assessment Tool: Skills demonstration

Assessment Date: Spring/Summer 2018

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Skills demonstration checklist

Standard of success to be used for this assessment: 90% of students will score 100%

Who will score and analyze the data: UA training coordinator

## **Course Objectives**

1. Review United Association Authorized Testing Representative/ Certified Welding Inspector (UA ATR/CWI) specifications, certifications, and procedures needed for weld testing.
2. Identify U.A. Authorized Testing Facilities and equipment needed to be labeled as an ATF.
3. Review section IX of the ASME Code as it relates to ATR/CWI weld testing equipment.
4. Observe and operate destructive cutting machine and wrap around bender tool.
5. Compare bends and cuts performed on machines to determine the accuracy of the weld test for certification.
6. Evaluate the types, size, and bends required for non-standard welding practices and scenarios to determine accuracy.

## **New Resources for Course**

### **Course Textbooks/Resources**

Textbooks

Manuals

Periodicals

Software

### **Equipment/Facilities**

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
<b>Faculty Preparer:</b> <i>Tony Esposito</i>	<i>Faculty Preparer</i>	<i>Feb 21, 2018</i>
<b>Department Chair/Area Director:</b> <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Apr 04, 2018</i>
<b>Dean:</b> <i>Brandon Tucker</i>	<i>Recommend Approval</i>	<i>Apr 05, 2018</i>
<b>Curriculum Committee Chair:</b> <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Jul 19, 2018</i>
<b>Assessment Committee Chair:</b> <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Jul 22, 2018</i>
<b>Vice President for Instruction:</b> <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Jul 26, 2018</i>