

Washtenaw Community College Comprehensive Report

UAT 288 Shielded Metal Arc Welding Effective Term: Spring/Summer 2016

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 288

Org Number: 28200

Full Course Title: Shielded Metal Arc Welding

Transcript Title: Shielded Metal Arc Welding

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Web Page

Reason for Submission:

Change Information:

Consultation with all departments affected by this course is required.

Rationale: Change credit hours, contact hours, assessment date and text.

Proposed Start Semester: Fall 2016

Course Description: In this course, students will update their skills and learn methods of teaching Shielded Metal Arc Welding (SMAW) and Oxy-Fuel Cutting & Welding. Topics include welding shop safety, types and proper operation of the welding machines used in SMAW, and welding types of electrodes and their make-up. Class size is limited to allow as much rod time as possible. Students selecting this course must come to class in safe working clothes. Limited to United Association program participants.

Course Credit Hours

Variable hours: No

Credits: 1

Lecture Hours: Instructor: 15 **Student:** 15

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

Lab: Instructor: 5 **Student:** 5

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

Total Contact Hours: Instructor: 20 **Student:** 20

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. Demonstrate advanced skills in shielded metal arc welding (SMAW) and Oxy-fuel cutting and welding.

Assessment 1

Assessment Tool: Skills checklist

Assessment Date: Fall 2015

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: All students

How the assessment will be scored: Skills checklist

Standard of success to be used for this assessment: 75% of the students will demonstrate advanced skills

Who will score and analyze the data: UA faculty

2. Explain to apprentices and journey-people the central concepts and skills of shielded metal arc welding.

Assessment 1

Assessment Tool: Teaching demonstration

Assessment Date: Fall 2015

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: 75% of all students through random sampling

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% will score 11 or higher out of 16.

Who will score and analyze the data: UA faculty

3. Demonstrate to apprentices and journey-people the proper maintenance and repair procedures related to teaching shielded metal arc welding.

Assessment 1

Assessment Tool: Teaching demonstration

Assessment Date: Fall 2015

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: 75% of all students through random sampling

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of the students will score 11 or higher out of 16

Who will score and analyze the data: UA faculty

4. Teach shielded metal arc welding utilizing approved industry and UA course/training materials.

Assessment 1

Assessment Tool: Teaching demonstration

Assessment Date: Fall 2015

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: 75% of all students through random sampling

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% will score 11 or higher out of 16

Who will score and analyze the data: UA faculty

Course Objectives

1. Perform shielded metal arc welding at an advanced level.

2. Integrate knowledge and skills related to shielded metal arc welding in preparation for teaching.
3. Explain and demonstrate how to set up shielded metal arc welding equipment and select necessary components.
4. Describe shielded metal arc welding parts and their functions.
5. Describe and exhibit proper safety measures when doing shielded metal arc welding.
6. Demonstrate appropriate use and knowledge of course materials.

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Justin Carter</i>	<i>Faculty Preparer</i>	<i>Sep 21, 2015</i>
Department Chair/Area Director: <i>Scott Klapper</i>	<i>Recommend Approval</i>	<i>Sep 21, 2015</i>
Dean: <i>Brandon Tucker</i>	<i>Recommend Approval</i>	<i>Sep 21, 2015</i>
Curriculum Committee Chair: <i>Kelley Gottschang</i>	<i>Recommend Approval</i>	<i>Oct 06, 2015</i>
Assessment Committee Chair: <i>Michelle Garey</i>	<i>Recommend Approval</i>	<i>Oct 11, 2015</i>
Vice President for Instruction: <i>Michael Nealon</i>	<i>Approve</i>	<i>Oct 23, 2015</i>