

Washtenaw Community College Comprehensive Report

UAT 290 Gas Tungsten Arc Welding (8014) Effective Term: Fall 2020

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 290

Org Number: 28200

Full Course Title: Gas Tungsten Arc Welding (8014)

Transcript Title: Gas Tungsten Arc Welding 8014

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Web Page

Reason for Submission: Course Change

Change Information:

Consultation with all departments affected by this course is required.

Course title

Course description

Outcomes/Assessment

Objectives/Evaluation

Rationale: Update United Association course

Proposed Start Semester: Fall 2020

Course Description: In this course, students will develop methods for teaching advanced techniques of Gas Tungsten Arc Welding (GTAW) that can be used at their local Training Center. Students will identify procedures and techniques utilized in welding corrosion-resistant alloys and a variety of materials. In addition, students will prepare and present a course activity using resources available through the UA Online Learning Resources (UAOLR). The title of this course was previously Gas Tungsten Arc Welding. 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. Locate, navigate, and customize a Blackboard course for a local Training Center using UAOLR and other online instructional resources.

Assessment 1

Assessment Tool: Outcome-related skills demonstration

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Rubric

Standard of success to be used for this assessment: 80% of the students will score 80% or higher.

Who will score and analyze the data: U.A. instructors

2. Demonstrate mastery of skills for welding corrosion resistant alloys.

Assessment 1

Assessment Tool: Outcome-related skills demonstration

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Observational checklist

Standard of success to be used for this assessment: 80% of the students will score 80% or higher.

Who will score and analyze the data: U.A. instructors

3. Prepare and present a classroom activity using UAOLR.

Assessment 1

Assessment Tool: Presentation

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Observational checklist

Standard of success to be used for this assessment: 80% of the students will score 80% or higher.

Who will score and analyze the data: U.A. instructors

Course Objectives

1. Discuss safety measures and personal protective equipment (PPE) when performing GTAW.
2. Recognize GTAW parts and their functions.
3. Integrate knowledge and skills related to utilizing TIG welding equipment.
4. Identify various welding specifications for various alloys and situations.

5. Demonstrate a GTAW technique to the class.
6. Locate and navigate UAOLR resources, materials assuring instructor and student access.
7. Prepare and present an activity for the classroom using online resources.
8. Discuss and demonstrate the preparation process for welding corrosion resistant alloys.
9. Demonstrate welding corrosion resistant alloys.
10. Customize a Blackboard class for use at a local Training Center.

New Resources for Course

Course Textbooks/Resources

Textbooks

International Association of Plumbing and Mechanical Officials. *Welding Practices and Procedures for the Pipe Trades*, First ed. IAPMO Group, 2016

Manuals

Periodicals

Software

Equipment/Facilities

Data projector/computer

Other: GTAW welding booths (number based on enrollment)

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Tony Esposito</i>	<i>Faculty Preparer</i>	<i>Jun 02, 2020</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Jun 05, 2020</i>
Dean: <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>Jun 09, 2020</i>
Curriculum Committee Chair: <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Sep 25, 2020</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Sep 30, 2020</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Oct 06, 2020</i>