

Washtenaw Community College Comprehensive Report

UAT 278 GTAW Wire Feed Welding Effective Term: Spring/Summer 2025

Course Cover

College: Advanced Technologies and Public Service Careers

Division: Advanced Technologies and Public Service Careers

Department: United Association Department (UAT Only)

Discipline: United Association Training

Course Number: 278

Org Number: 28200

Full Course Title: GTAW Wire Feed Welding

Transcript Title: GTAW Wire Feed Welding

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Web Page

Reason for Submission: Inactivation

Change Information:

Consultation with all departments affected by this course is required.

Rationale: U.A. Course no longer relevant: the course was combined with a new course to condense and/or update the material taught.

Proposed Start Semester: Winter 2025

Course Description: In this course, students will learn methods of teaching the Gold Trac GTAW wire feed machine pipe welding process at the local level. This course introduces the operation, technology, comparison of analog and microprocessor-controlled systems, hot wire welding and equipment set-up and safety issues. Additionally, the course covers process variables, system programmer control functions, weld parameter selection and development and Dimetrics power supplies such as GT2. Limited to United Association program participants.

Course Credit Hours

Variable hours: No

Credits: 3

Lecture Hours: Instructor: 45 Student: 45

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

Lab: Instructor: 3 Student: 3

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 48 Student: 48

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. Explain to apprentices and journey-people the central concepts and skills of the Gold Trac GTAW wire feed machine pipe welding process.

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

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: UAT faculty

2. Demonstrate to apprentices and journey-people the proper maintenance and repair procedures of the Gold Trac GTAW wire feed machine pipe welding process.

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

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: UAT faculty

3. Teach the Gold Trac GTAW wire feed machine pipe welding process 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

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: UAT faculty

Course Objectives

1. Explain and demonstrate the features and methods of operating the Gold Track GTAW wire feed machine welding.
2. Describe the proper safety procedures during equipment set up and hot wire welding.
3. Identify the fundamentals of equipment technology and demonstrate how to program automatic welding machines.
4. Identify the purpose of joint configuration and explain the importance of controlling heat input to the base metal.
5. Demonstate 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>Tony Esposito</i>	<i>Faculty Preparer</i>	<i>Nov 01, 2024</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Nov 04, 2024</i>
Dean: <i>Eva Samulski</i>	<i>Recommend Approval</i>	<i>Nov 06, 2024</i>
Curriculum Committee Chair: <i>Randy Van Wagnen</i>	<i>Reviewed</i>	<i>Apr 15, 2025</i>
Assessment Committee Chair:		
Vice President for Instruction: <i>Brandon Tucker</i>	<i>Approve</i>	<i>Apr 15, 2025</i>

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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 description

Credit hours

Total Contact Hours

Outcomes/Assessment

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

Proposed Start Semester: Fall 2015

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Course Credit Hours

Variable hours: No

Credits: 2

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

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

Lab: Instructor: 10 **Student:** 10

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

Total Contact Hours: Instructor: 40 **Student:** 40

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

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Explain to apprentices and journey-people the central concepts and skills of the Gold Trac GTAW wire feed machine pipe welding process.

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

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: UAT faculty

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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>Jul 22, 2015</i>
Department Chair/Area Director: <i>Scott Klapper</i>	<i>Recommend Approval</i>	<i>Jul 23, 2015</i>
Dean: <i>Brandon Tucker</i>	<i>Recommend Approval</i>	<i>Jul 24, 2015</i>
Curriculum Committee Chair: <i>Kelley Gottschang</i>	<i>Recommend Approval</i>	<i>Sep 29, 2015</i>
Assessment Committee Chair: <i>Michelle Garey</i>	<i>Recommend Approval</i>	<i>Sep 29, 2015</i>
Vice President for Instruction: <i>Michael Nealon</i>	<i>Approve</i>	<i>Oct 06, 2015</i>