Washtenaw Community College Comprehensive Report

UAT 272 Wire Feed Orbital Welding Effective Term: Spring/Summer 2015

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department **Discipline:** United Association Training

Course Number: 272 Org Number: 28200

Full Course Title: Wire Feed Orbital Welding Transcript Title: Wire Feed Orbital Welding

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

Course Description: In this course, students will learn methods of teaching wire feed orbital welding. Topics include teaching wire feed orbital equipment capacity/capabilities and their accessories; installation and set-up of equipment; machine and weld head calibration; weld joint design; tack-up; weld preparation; and welding parameters. Students taking this class should already be well versed in orbital tube welding. Limited to United Association program participants.

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 wire feed orbital 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

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 related to wire feed orbital 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

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 wire feed orbital 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

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 the terminologies and theoretical applications for weld program selection and development.
- 2. Identify and describe the wire feed orbital welding process variables and system programmer control functions.
- 3. Demonstrate how to calculate and modify welder program worksheet to meet specifications.
- 4. Demonstrate installation and set-up of equipments, machine and weld head calibrations, and other wire feed orbital welding techniques.
- 5. 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:		
Justin Carter	Faculty Preparer	Jul 22, 2015
Department Chair/Area Director:		
Scott Klapper	Recommend Approval	Jul 23, 2015
Dean:		
Brandon Tucker	Recommend Approval	Jul 24, 2015
Curriculum Committee Chair:		
Kelley Gottschang	Recommend Approval	Sep 29, 2015
Assessment Committee Chair:		
Michelle Garey	Recommend Approval	Sep 29, 2015
Vice President for Instruction:		
Michael Nealon	Approve	Oct 06, 2015