

Washtenaw Community College Comprehensive Report

UAT 261 Thermoplastic Fusion Effective Term: Spring/Summer 2016

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 261

Org Number: 28200

Full Course Title: Thermoplastic Fusion

Transcript Title: Thermoplastic Fusion

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

Objectives/Evaluation

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 thermoplastic fusion. Topics to be covered include thermoplastic fusion technology and methods used in the semiconductor, pharmaceutical and chemical processing industries, hands-on operation of the IR (infrared) 63, IR 225, BCF Plus and socket fusion machines and the Weld Inspection Program. Students are expected to wear appropriate work 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. Explain the central concepts and skills of thermoplastic fusion to apprentices and journey-people.

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 the proper maintenance and repair procedures related to thermoplastic fusion to apprentices and journey-people.

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 apprentices and journey-people thermoplastic fusion using 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. Identify all the parts and features of the George Fischer piping systems.
2. Identify the fundamentals of plastics, socket fusion technology, and infrared fusion technology.
3. Recognize the processes to operate and maintain the IR63 and IR225 machines.
4. Demonstrate competence when using the SG110 and BCF Plus machines.
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: <i>Justin Carter</i>	<i>Faculty Preparer</i>	<i>Jun 25, 2015</i>
Department Chair/Area Director: <i>Scott Klapper</i>	<i>Recommend Approval</i>	<i>Jul 02, 2015</i>
Dean: <i>Brandon Tucker</i>	<i>Recommend Approval</i>	<i>Jul 07, 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>