

Washtenaw Community College Comprehensive Report

UAT 118 Clamping, Reforming, and Pipe Aligning (UA 5023) Effective Term: Spring/Summer 2018

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 118

Org Number: 28200

Full Course Title: Clamping, Reforming, and Pipe Aligning (UA 5023)

Transcript Title: Clamp, Reform & Align (5023)

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Time Schedule , Web Page

Reason for Submission: New Course

Change Information:

Rationale: New UAT course

Proposed Start Semester: Spring/Summer 2018

Course Description: In this course, students will be taught the various types of clamps used in the fabrication and installation of piping systems. Application-based training for the proper selection of clamps used to perform various pipe joining configuration will be emphasized. Lab exercises will focus on the proper use of pipe clamps, including safety, clamp set-up, joint fit verification, and preventative maintenance of equipment. 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. Cite proper clamp selection for various sizes and compositions of pipe installations.

Assessment 1

Assessment Tool: Written exam

Assessment Date: Spring/Summer 2018

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 90% of students will score 100%

Who will score and analyze the data: U.A. training coordinator

2. Demonstrate the safe proper set-up and operation of each type of pipe clamp in various settings.

Assessment 1

Assessment Tool: Skills demonstration

Assessment Date: Spring/Summer 2018

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Skills demonstration checklist

Standard of success to be used for this assessment: 90% of the students will score 100%

Who will score and analyze the data: U.A. training coordinator

Course Objectives

1. Compare and contrast the pros and cons of the different types of clamps.
2. Identify the existing procedures in the industry today for clamp selection and use.
3. Identify applications, demonstrate proper selection, and present alternative clamp selection.
4. Identify and demonstrate possible hazards, safety issues and proper PPE (Personal Protective Equipment) needed during set-up and operation of clamping devices.
5. Verify internal alignment and gap after reforming and aligning process, including necessary adjustments.
6. Demonstrate preventative maintenance of clamps and safeguards to ensure proper performance.

New Resources for Course

Course Textbooks/Resources

Textbooks

Manuals

Periodicals

Software

Equipment/Facilities

Reviewer

Action

Date

Faculty Preparer:

Tony Esposito

Faculty Preparer

Nov 16, 2017

Department Chair/Area Director:

<i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Nov 17, 2017</i>
Dean:		
<i>Brandon Tucker</i>	<i>Recommend Approval</i>	<i>Dec 27, 2017</i>
Curriculum Committee Chair:		
<i>David Wooten</i>	<i>Recommend Approval</i>	<i>Mar 12, 2018</i>
Assessment Committee Chair:		
<i>Michelle Garey</i>	<i>Recommend Approval</i>	<i>Mar 28, 2018</i>
Vice President for Instruction:		
<i>Kimberly Hurns</i>	<i>Approve</i>	<i>Mar 29, 2018</i>