

Washtenaw Community College Comprehensive Report

UAT 196 Pipefitting Fundamentals (UA 5005)

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: 196

Org Number: 28200

Full Course Title: Pipefitting Fundamentals (UA 5005)

Transcript Title: Pipefitting Fundamentals 5005

Is Consultation with other department(s) required: No

Publish in the Following:

Reason for Submission: New Course

Change Information:

Rationale: New United Association course

Proposed Start Semester: Spring/Summer 2024

Course Description: In this course, students will create curriculum for their local Training Centers using resources and references from IPT's Pipe Trades Manual and Handbook. Students will analyze how tests, quizzes, and hands-on projects can be used to reinforce each section of the handbook. Students will demonstrate skills needed to create and teach a Piping Fundamentals class that fits their local Training Center's needs. 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

Request Course Transfer**Proposed For:****Student Learning Outcomes**

1. Create curriculum for a pipe fitter course utilizing the resources from IPT's Pipe Trades Training Manual and Handbook.

Assessment 1

Assessment Tool: Outcome-related worksheet

Assessment Date: Fall 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: 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

2. Present a lesson plan from the IPT's Pipe Trades Manual and Handbook that can be used at the student's local Training Center.

Assessment 1

Assessment Tool: Outcome-related presentation

Assessment Date: Fall 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: 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. Review each section of the Pipe Trades Training Manual and Handbook for course relevance and application including pipe data, tube data, valves, fittings, gasketed joints, offsets, trigonometry, pipe layout, piping prints, pipe welding and rigging.
2. Review the classroom resources available for course curriculum including PowerPoint presentations, quizzes, and tests.
3. Review the hands-on shop projects outlined in the Pipe Trades Manual for course relevance and application at local Training Centers.
4. Prepare a section of the Pipe Trades Manual and its resources for the local Training Center.
5. Present a section of the Pipe Trades Manual along with the corresponding shop projects for use at the local Training Center.
6. Discuss classroom time management and scheduling considerations for a pipe fitter course outline.
7. Reflect on student presentations and engage in peer review.

New Resources for Course**Course Textbooks/Resources**

Textbooks

Manuals

ITP Pipe Trades . IPT's Pipe Trades Training Manual and Handbook, IPT Publishing & Training, Ltd., 01-01-2006

Periodicals

Software

Equipment/Facilities

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Tony Esposito</i>	<i>Faculty Preparer</i>	<i>May 03, 2024</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>May 07, 2024</i>
Dean: <i>Eva Samulski</i>	<i>Recommend Approval</i>	<i>May 15, 2024</i>
Curriculum Committee Chair: <i>Randy Van Wagnen</i>	<i>Recommend Approval</i>	<i>Nov 07, 2024</i>
Assessment Committee Chair: <i>Jessica Hale</i>	<i>Recommend Approval</i>	<i>Nov 22, 2024</i>
Vice President for Instruction: <i>Brandon Tucker</i>	<i>Approve</i>	<i>Nov 26, 2024</i>