

Washtenaw Community College Comprehensive Report

UAT 262 Pipe Trades Advanced Drawing Effective Term: Spring/Summer 2014

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 262

Org Number: 28200

Full Course Title: Pipe Trades Advanced Drawing

Transcript Title: Pipe Trades Advanced Drawing

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Web Page

Reason for Submission: Three Year Review / Assessment Report

Change Information:

Course description

Credit hours

Total Contact Hours

Outcomes/Assessment

Objectives/Evaluation

Rationale: Course update

Proposed Start Semester: Spring/Summer 2014

Course Description: In this course, students will learn about methods of teaching pipe trades applied drawing. Topics to be covered include: three view, plan view and elevation view drawings; graphic symbols for pipe fittings and valves; interpretation of technical diagrams and piping drawings; and building specifications. Methods of teaching with the Isometric compass are also applied. 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 pipe trades applied drawing utilizing UA approved materials.

Assessment 1

Assessment Tool: Presentation

Assessment Date: Spring/Summer 2014

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of students will score 75% or above.

Who will score and analyze the data: Departmental faculty

2. Demonstrate methods of teaching how to interpret plan, elevation and isometric drawings.

Assessment 1

Assessment Tool: Presentation

Assessment Date: Spring/Summer 2014

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of students will score 75% or above.

Who will score and analyze the data: Departmental faculty

3. Demonstrate methods of teaching how to draw piping with off-sets in more than one dimension.

Assessment 1

Assessment Tool: Student project

Assessment Date: Spring/Summer 2014

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of students will score 75% or above.

Who will score and analyze the data: Departmental faculty

Course Objectives

1. Identify various graphic symbols for pipe fittings and valves.

Matched Outcomes

2. Recognize various building specifications in relation to creating working drawings.

Matched Outcomes

3. Illustrate the simplicity of functions with the use of certain drawing tools.

Matched Outcomes

4. Interpret isometric drawings and building plans.

Matched Outcomes

5. Demonstrate appropriate use and knowledge of course materials.

Matched Outcomes

6. Identify and interpret plan, elevation and isometric drawings.

Matched Outcomes

7. Size and scale all lines on a drawing.
Matched Outcomes
8. Identify various types of fittings as demonstrated by different crafts.
Matched Outcomes
9. Draw piping in more than one dimension.
Matched Outcomes
10. Draw offsets in various degrees.
Matched Outcomes
11. Draw and layout cylinder tanks to scale.
Matched Outcomes
12. Read a tape measure.
Matched Outcomes
13. Identify the difference between a circle and an ellipse circle.
Matched Outcomes

New Resources for Course

Course Textbooks/Resources

Textbooks

National Joint Steamfitter - Pipefitter Apprenticeship Committee. *Drawing Interpretation and Plan Reading Building Plans for United Association Journeymen and Apprentices*, ed.

National Joint Steamfitter - Pipefitter Apprenticeship Committee, 1996

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

Computer workstations/lab

Data projector/computer

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Amanda Scheffler</i>	<i>Faculty Preparer</i>	<i>Jun 27, 2013</i>
Department Chair/Area Director: <i>Scott Klapper</i>	<i>Recommend Approval</i>	<i>Feb 03, 2014</i>
Dean: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Feb 05, 2014</i>
Vice President for Instruction: <i>Bill Abernethy</i>	<i>Approve</i>	<i>Apr 21, 2014</i>