

Washtenaw Community College Comprehensive Report

UAT 262 Methods of Teaching Drawing Interpretation and Plan Reading (UA 2004) Effective Term: Fall 2020

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: Methods of Teaching Drawing Interpretation and Plan Reading (UA 2004)

Transcript Title: Teach Drawing & Plan Rd 2004

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 title

Course description

Outcomes/Assessment

Objectives/Evaluation

Rationale: Update U.A. course

Proposed Start Semester: Fall 2020

Course Description: PipIn this course, students will use the Drawing Interpretation and Plan Reading set to develop methods to teach drafting, drawing interpretation, and plan reading at local Training Centers. Students will be shown how to teach orthographic and isometric drawings, followed by a hands-on drafting lab where they will interpret and create their own drawings and plans. In addition, students will review various types of drawings, specifications, and submittals used to install piping systems. The title of this course was previously Pipe Trades Advanced Drawing. 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. Create methods used to teach the drafting of orthographic and isometric drawings.

Assessment 1

Assessment Tool: Worksheet

Assessment Date: Fall 2020

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: 80% of the students will score 80% or higher.

Who will score and analyze the data: U.A. instructors

2. Identify and describe the various types of drawings, views, and documents used to design and install piping systems.

Assessment 1

Assessment Tool: Outcome-related written exam questions

Assessment Date: Fall 2020

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: 80% of the students will score 80% or higher.

Who will score and analyze the data: U.A. instructors

3. Prepare and present a lesson plan for drawing interpretation and plan reading using recommended resources and teaching methods.

Assessment 1

Assessment Tool: Presentation

Assessment Date: Fall 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Observational 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. Use the Drawing Interpretation and Reading Plan set as a resource for teaching.
2. Identify various graphic symbols for pipe fittings and valves.

3. Recognize various building specifications related to creating working drawings.
4. Identify and interpret plan, elevation and isometric drawings.
5. Size and scale all lines on a drawing.
6. Create pipe drawings using graphic symbols in one and two dimensions.
7. Explain the use of an isometric compass.
8. Categorize different types of drawings.
9. Identify the different drawing views.
10. Recognize prints/specifications and describe submittals.
11. Identify the various methods and the resources available to develop lesson plans.
12. Navigate the United Association Online Learning Resource (UAOLR) center for Blackboard information and class resources.
13. Develop and demonstrate a five-minute lesson plan for class observation and discussion.

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>Tony Esposito</i>	<i>Faculty Preparer</i>	<i>Apr 23, 2020</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Apr 28, 2020</i>
Dean: <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>May 27, 2020</i>
Curriculum Committee Chair: <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Aug 13, 2020</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Aug 25, 2020</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Aug 26, 2020</i>