

Washtenaw Community College Comprehensive Report

UAT 225A Methods in Teaching Plumbing Fixtures (UA 4003)

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: 225A

Org Number: 28200

Full Course Title: Methods in Teaching Plumbing Fixtures (UA 4003)

Transcript Title: Teaching Plumbing Fixture 4003

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: This is an updated course UAT225 course that is more reflective of the teaching element of the topic. I believe the outcomes and assessments have been altered enough from the original course to constitute another course.

Proposed Start Semester: Spring/Summer 2025

Course Description: In this course, students will acquire the knowledge and tools to deliver a plumbing fixtures course at their local Training Centers. Students will review the design and function of plumbing fixtures, installation practices, institutional fixtures, fixture controls, appliances, and accessories. By the end of this course, students will be able to create a syllabus and formulate a valid assessment of student learning. Using tools and resources from the United Association Online Learning Resources (UAOLR), Canvas, and hands-on applications, students will apply different methods of teaching to design a lesson plan. 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 a course plan and syllabus for the Plumbing Fixtures Syllabus to be used at students' local Training Centers.

Assessment 1

Assessment Tool: Outcome-related syllabus

Assessment Date: Spring/Summer 2025

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: 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. Create lesson plan using learning activities to accommodate different learning styles and learning methods for the Plumbing Fixtures course.

Assessment 1

Assessment Tool: Outcome-related lesson plan

Assessment Date: Spring/Summer 2025

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: 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

3. Create an assessment tool for measuring student learning related to drainage systems.

Assessment 1

Assessment Tool: Outcome-related worksheet

Assessment Date: Spring/Summer 2025

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: 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

Course Objectives

1. Develop course outcomes and learning objectives for the local target audience.
2. Identify the method of assessment for each outcome.
3. Discuss plumbing standards and code development used in the industry today.
4. Classify different plumbing fixtures by size and usage.
5. Review the history of plumbing fixtures, including current technology.
6. Demonstrate the different flushing methods used in the industry today.

7. Describe the different materials used to make fixtures.
8. Examine Americans with Disabilities Act (ADA) standards and determine an acceptable layout for compliance.
9. Pair appurtenances and accessories with the appropriate fixtures.
10. Identify jurisdictional differences between students' local Training Centers.
11. Define the four different learning styles.
12. Identify the locations of various resources and tools including the internet, course manual, cutaway teaching aids, industry representatives, visual aids, whiteboard, and shop trainers.
13. Locate tools and resources within the Learning Management System (LMS).
14. Match the available teaching tools to the learning type.
15. List the types of assessments available.
16. Analyze what makes an assessment useful and valid.
17. Create, apply, and evaluate a rubric for a simple task.
18. Create a written assessment from new and existing questions.

New Resources for Course

Course Textbooks/Resources

Textbooks

American Technical Publishers. *Plumbing Fixtures and Appliances*, ed. American Technical Publisher, 2018

Manuals

Periodicals

Software

Equipment/Facilities

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Tony Esposito</i>	<i>Faculty Preparer</i>	<i>Feb 06, 2025</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Feb 07, 2025</i>
Dean: <i>Eva Samulski</i>	<i>Recommend Approval</i>	<i>Feb 07, 2025</i>
Curriculum Committee Chair: <i>Randy Van Wagnen</i>	<i>Recommend Approval</i>	<i>Jun 04, 2025</i>
Assessment Committee Chair: <i>Jessica Hale</i>	<i>Recommend Approval</i>	<i>Jun 09, 2025</i>
Vice President for Instruction: <i>Brandon Tucker</i>	<i>Approve</i>	<i>Jun 10, 2025</i>