

Washtenaw Community College Comprehensive Report

UAT 225 Plumbing Fixtures Effective Term: Spring/Summer 2014

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 225

Org Number: 28200

Full Course Title: Plumbing Fixtures

Transcript Title: Plumbing Fixtures

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 about the various types of plumbing fixtures. Students will discuss and develop skills to instruct in topics such as the history of plumbing fixtures; the theory of design; the principles of installation and operation of these fixtures; the fixture controls and related appliances. Students taking this class should have a working knowledge of plumbing fixtures. Limited to United Association program participants.

Course Credit Hours

Variable hours: No

Credits: 1

Lecture Hours: Instructor: 15 Student: 15

Lab: Instructor: 0 Student: 0

Clinical: Instructor: 0 Student: 0

Other: Instructor: 5 Student: 5

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

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Explain the central concepts and skills of plumbing fixtures 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: Skill checklist with 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 on the proper maintenance and repair procedures related to plumbing fixtures.

Assessment 1

Assessment Tool: Teaching demonstration

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: Performance parameters with 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. Recall the designs and functions of different types of plumbing fixtures.

Matched Outcomes

2. Identify the common problems found in plumbing.

Matched Outcomes

3. Recall the installation practices for institutional fixtures.

Matched Outcomes

4. Develop concepts and strategies needed to demonstrate the installation of appliances and accessories.

Matched Outcomes

5. Demonstrate appropriate use of course materials.

Matched Outcomes

6. Identify resources of new fixture and appliance information.

Matched Outcomes

7. Develop concepts and strategies needed to teach apprentices how to analyze elements of institutional fixtures including the design and construction and distinguish between residential and commercial fixtures.

Matched Outcomes

8. Develop concepts and strategies needed to teach apprentices how to define fixture unit values.

Matched Outcomes

9. Develop concepts and strategies needed to teach apprentices how to categorize materials used in manufacturing.

Matched Outcomes

10. Develop concepts and strategies needed to teach apprentices designs and functions of

water closets, urinals, lavatories, sinks, tubs, showers and bidets.

Matched Outcomes

11. Develop concepts and strategies needed to teach apprentices how to recognize and apply related code requirements and recognized industry standards.

Matched Outcomes

12. Develop concepts and strategies needed to teach apprentices how to differentiate between institutional, residential and commercial fixtures.

Matched Outcomes

13. Develop concepts and strategies needed to teach apprentices about hydraulic principles of various valves, controls and metering devices.

Matched Outcomes

14. Develop concepts and strategies needed to teach apprentices how to analyze related sciences and code requirements for back-flow prevention.

Matched Outcomes

15. Develop concepts and strategies needed to teach apprentices how to identify, install and operate waste control fittings.

Matched Outcomes

New Resources for Course

Course Textbooks/Resources

Textbooks

International Pipe Trades Joint Training Committee. *Plumbing Fixtures and Appliances*, ed. International Pipe Trades Joint Training Committee, 2003

Manuals

Periodicals

Software

Equipment/Facilities

Level II classroom

Data projector/computer

Reviewer

Action

Date

Faculty Preparer:

Amanda Scheffler

Faculty Preparer

Jun 27, 2013

Department Chair/Area Director:

Scott Klapper

Recommend Approval

Feb 03, 2014

Dean:

Marilyn Donham

Recommend Approval

Feb 05, 2014

Vice President for Instruction:

Bill Abernethy

Approve

Mar 31, 2014