

Washtenaw Community College Comprehensive Report

UAT 241 Methods in Teaching Water Supply Systems (UA 4001) Effective Term: Fall 2020

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 241

Org Number: 28200

Full Course Title: Methods in Teaching Water Supply Systems (UA 4001)

Transcript Title: Water Supply Systems 4001

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 United Association course

Proposed Start Semester: Fall 2020

Course Description: In this course, students will develop methods of teaching for potable hot water and water supply systems that can be used at their local Training Centers. Students will study water supply from a historical perspective, including sources, treatment, and distribution, as well as identify terms and materials used in installation. In addition, students will identify current advancements in technology and water conservation. Students will also demonstrate the use of applicable online resources to create instructional activities, including enhancing course material. The title of this course was previously Advanced Water Supply. 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. Identify water supply terms, systems, conservation techniques and current technology used in the plumbing industry.

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

2. Prepare and present lesson plan from Blackboard utilizing United Association Online Learning Resources (UAOLR).

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

3. Prepare and demonstrate instructional activities on water supply utilizing the UA Water Supply UAOLR, online and vendor informational resources.

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. Identify and discuss current water supply technology.

2. Develop concepts and strategies needed to teach apprentices how to identify building water supply systems.
3. Discuss safety and personal protective equipment (PPE) needed when installing and repairing water-related equipment and material as well as unsafe conditions of pressures and temperatures.
4. Discuss the use of experiments and modular trainers for illustrating textbook concepts.
5. Discuss instructional resources currently available and utilized at the student's local Training Center.
6. Locate, navigate, and discuss UAOLR resources available, including Blackboard and the testing center.
7. Demonstrate utilizing UAOLR by creating a Blackboard course and downloading materials.
8. Review the process for ordering experiments, modular trainers, and hands-on projects available from UA.
9. Locate and navigate additional resources including vendor informational resources to create instructional activities.
10. Present a five-minute lesson plan using resources obtained from a customized Blackboard course.
11. Discuss the history of water supply and distribution.
12. Identify common terms and definitions used in potable water systems.
13. Identify water distribution systems and materials needed for installation.

New Resources for Course

Course Textbooks/Resources

Textbooks

International Pipe Trades Joint Training Committee. *Water Supply for United Association of Journeyworkers & Apprentices*, First ed. International Pipe Trades Joint Training Committee, 2017

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

| <u>Reviewer</u> | <u>Action</u> | <u>Date</u> |
|---|---------------------------|---------------------|
| Faculty Preparer: <i>Tony Esposito</i> | <i>Faculty Preparer</i> | <i>Jun 02, 2020</i> |
| Department Chair/Area Director: <i>Marilyn Donham</i> | <i>Recommend Approval</i> | <i>Jun 05, 2020</i> |
| Dean: <i>Jimmie Baber</i> | <i>Recommend Approval</i> | <i>Jun 10, 2020</i> |
| Curriculum Committee Chair: <i>Lisa Veasey</i> | <i>Recommend Approval</i> | <i>Oct 16, 2020</i> |
| Assessment Committee Chair: <i>Shawn Deron</i> | <i>Recommend Approval</i> | <i>Oct 20, 2020</i> |
| Vice President for Instruction: <i>Kimberly Hurns</i> | <i>Approve</i> | <i>Oct 22, 2020</i> |