

UAT 351: PLUMBING CODE APPLICATION (UA 4004)

History

1. Dec 5, 2025 by Sera Bird (sabird)

Viewing: UAT 351 : Plumbing Code Application (UA 4004)

Last approved: 2025-12-05T08:04:26Z

Last edit: 2025-12-04T20:03:22Z

Effective Term

Winter 2026

Rationale and proposal summary

Update United Association course to reflect current technologies and industry standards.

Course Cover

Full Course Title

Plumbing Code Application (UA 4004)

Transcript Title

Plumbing Code Applctn (4004)

Subject Code

UAT - United Association Training

Course Number

351

Department

United Assoc Dept (UAT Only) (UATD)

Banner Division

ATP

Division/College

Adv Tech/Public Serv Careers (AT)

Org Code

28200

Course Description

In this course, students will develop methods of teaching plumbing codes, including requirements, technical comparison, interpretation, and practical applications, which can be taught at their local Training Center. Students will review the history and development of plumbing codes and research local jurisdictional requirements to prepare for course delivery for journeyman exams. In addition, students will demonstrate virtual tools and instructional techniques for course instruction. The previous title of this course was Plumbing Codes (UA 4004). Limited to United Association Instructor Training program graduates.

Has this course been approved for online or online blended?

Yes

Grading method

Standard Letter, Audit

CIP Code

469999 - Construction Trades, Other.

Occupational Indicator

Yes

ACS Code

130

Degree Attributes

BCL - Below College Level Pre-Reqs

Credit hours, contact hours, repeatability**Repeatable for additional credit**

No

Course credits

1.5

Lecture contact hours

22.5

Lab contact hours

1.5

Total Contact Hours

24

Expected Total Contact Hours

24

Prerequisites and prerequisite skill levels**College-Level Math**

No Level Required

College-Level Reading and Writing

College-level Reading and Writing

Approved Level I Prerequisite:

Academic Reading and Writing Levels of 6

Course Assessment Plan**Learning Outcome****Outcome**

Create a draft of a syllabus and lesson plan with resources pertaining to plumbing code and student's jurisdiction of plumbing regulations.

Assessment #1**Assessment Tool**

Outcome-related syllabus and lesson plan

Anticipated Next Assessment Year

2025

Anticipated Next Assessment Term

Summer

Assessment Cycle

Every Three Years

Anticipated assessment population

All students from all sections

How the assessment will be scored

Instructor checklist

Who does the scoring?

U.A. instructors

Standard of success

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

Assessment #2

Learning Outcome**Outcome**

Prepare and present a plumbing code application course instructional activity to be used at the local Training Center.

Assessment #1**Assessment Tool**

Outcome-related presentation

Anticipated Next Assessment Year

2025

Anticipated Next Assessment Term

Summer

Assessment Cycle

Every Three Years

Anticipated assessment population

All students from all sections

How the assessment will be scored

Observational checklist

Who does the scoring?

U.A. instructors

Standard of success

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

Assessment #2

Course Objectives

	Objective(s)
1.	Identify the various plumbing and mechanical codes and the rationale for establishing plumbing codes.
2.	Create a lesson to describe various plumbing codes, their purposes, and applications.
3.	Outline the requirements of the Uniform Plumbing Code (UPC) and the International Plumbing Code (IPC).
4.	Access online resources for codes using the Authority Having Jurisdiction (AHJ) websites.
5.	Discuss conflict resolution skills for code and interpretation disagreement.
6.	Discuss the online United Association Online Learning Resource (UAOLR) for other resources, classroom materials, and assessments.
7.	Discuss available learning tools, Canvas and related learning management system (LMS) resources.
8.	Demonstrate teaching methods using the Plumbing Code Application Manual and its related instructional materials.
9.	Deliver a plumbing code application instructional activity to be used at the local Training Center.

General Education Area(s)**Area 1: Writing**

No

Area 2: 2nd Writing or Communication/Speech

No

Area 3: Mathematics

No

Area 4: Natural Science

No

Area 5: Social and Behavioral Science

No

Area 6: Arts and Humanities

No

MTA General Education

No

Review

Is conditional approval requested?

No

Is this course currently conditionally approved, and you are now submitting it for full approval?

No

Key: 9005

Washtenaw Community College Comprehensive Report

UAT 351 Plumbing Codes (UA 4004)

Effective Term: Fall 2020

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 351

Org Number: 28200

Full Course Title: Plumbing Codes (UA 4004)

Transcript Title: Plumbing Codes (UA 4004)

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Web Page

Reason for Submission:

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 plumbing codes, including requirements, technical comparison, interpretation and practical applications, which can be taught at the student's local Training Center. Students will review the history and development of plumbing codes and research local jurisdictional requirements to prepare course delivery for journeyman exams. In addition, students will demonstrate virtual tools and instructional techniques for course instruction. The title of this course was previously Plumbing Codes. Limited to United Association Instructor Training program graduates.

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 a draft of a syllabus and lesson plan with resources pertaining to plumbing code and student's jurisdiction of plumbing regulations.

Assessment 1

Assessment Tool: Draft of a syllabus and lesson plan

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: Instructor 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

2. Prepare and present a lesson plan for a Plumbing Code Application course at the local training center.

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 the various plumbing and mechanical codes and the rationale for establishing plumbing codes.
2. Create a lesson to describe various plumbing codes, their purposes, and applications.
3. Demonstrate appropriate use of course materials when teaching a lesson.
4. Demonstrate methods of teaching how to use the Plumbing Code Application Manual and accompanying CD.
5. Outline the requirements of the Uniform Plumbing Code (UPC) and the International Plumbing Code (IPC).
6. Access online resources for codes using the Authority Having Jurisdiction (AHJ) websites.
7. Discuss conflict resolution skills for code and interpretation disagreement.
8. Discuss the online United Association Online Learning Resource (UAOLR) for other resources, classroom materials, and assessments.
9. Discuss available learning tools and Blackboard resources.
10. Create a Jeopardy game for plumbing codes, and discuss other creative tools used for instruction.

New Resources for Course

Course Textbooks/Resources

Textbooks

International Association of Plumbing and Mechanical Officials. *UA Plumbing Code Application Manual*, ed. IAPMO Group, 2018

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

Computer workstations/lab

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Tony Esposito</i>	<i>Faculty Preparer</i>	<i>Apr 29, 2020</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>May 07, 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>Sep 25, 2020</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Sep 30, 2020</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Oct 06, 2020</i>