Washtenaw Community College Comprehensive Report

UAT 345 Cross Connection Control (UA 4008)
Effective Term: Winter 2021

Course Cover

Division: Advanced Technologies and Public Service Careers
Department: United Association Department
Discipline: United Association Training
Course Number: 345
Org Number: 28200
Full Course Title: Cross Connection Control (UA 4008)
Transcript Title: Cross Connection Control 4008
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 description
Outcomes/Assessment
Objectives/Evaluation
Rationale: Revise course for UA
Proposed Start Semester: Spring/Summer 2020
Course Description: In this course, students will identify the hazards associated with cross-connection control of water systems. Topics include cross-connection terminology, fluid dynamics, and the proper use of backflow prevention methods, devices and assemblies. Students will conduct a hands-on site survey to identify and document the risks and hazards of cross-connections, as well as recommend the proper methods, devices, or assemblies to bring the site to compliance with approved standards. This course contains material previously taught in UAT 358. 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. Recognize backflow conditions and terminology such as backsiphonage backflow and backpressure backflow.
   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. Identify cross-connections and determine the approved methods, devices or assemblies to protect drinking water 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. Conduct on-site surveys, including documentation, notification and follow-up survey procedures.
   Assessment 1
   Assessment Tool: Demonstration
   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 wills core 80% or higher.
   Who will score and analyze the data: U.A. instructors

Course Objectives

1. Recognize terms and concepts related to cross-connections and adequate backflow prevention practices.
2. Identify common symbols used in plan reading.

3. Recognize and interpret plumbing codes and local ordinances.
4. Recommend needed backflow prevention methods for a facility.
5. Classify different types of cross-connections and determine the level of hazard each presents to the occupants of a building, site or facility.
6. Discuss the causes of backsiphonage backflow.
7. Compare and contrast backpressure backflow and backsiphinage backflow.
8. Discuss the use of an approved method to control cross-connections in drinking water systems.
9. Identify and discuss approved devices and assemblies to control cross-connections in drinking water systems.
10. Identify the legal requirements and liabilities involved in a cross-connection survey.
11. Recognize the requirements for notifying the water supply owner of the results of a cross-connection survey.
12. Complete documentation of onsite cross-connection surveys for notification, verification, and conduct follow-up procedures.

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
International Association of Plumbing and Mechanical Officials. Backflow Prevention Reference Manual 3rd Edition, IAPMO Group, 01-01-2016
Periodicals
Software

Equipment/Facilities

Data projector/computer

Reviewer	Action	Date
Faculty Preparer:		
Tony Esposito	*Faculty Preparer*	*Apr 16, 2020*
Department Chair/Area Director:		
Marilyn Donham	*Recommend Approval*	*Apr 28, 2020*
Dean:		
Jimmie Baber	*Recommend Approval*	*May 27, 2020*
Curriculum Committee Chair:		
Lisa Veasey	*Recommend Approval*	*Sep 25, 2020*
Assessment Committee Chair:		
Shawn Deron	*Recommend Approval*	*Sep 30, 2020*
Vice President for Instruction:		
Kimberly Hurns	*Approve*	*Oct 06, 2020*