

Washtenaw Community College Comprehensive Report

UAT 186 Water Quality Fire Protection (UA 7051)

Effective Term: Fall 2020

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 186

Org Number: 28200

Full Course Title: Water Quality Fire Protection (UA 7051)

Transcript Title: Water Quality Fire Protect 7051

Is Consultation with other department(s) required: No

Publish in the Following:

Reason for Submission: New Course

Change Information:

Rationale: New United Association course

Proposed Start Semester: Fall 2020

Course Description: In this course, students will review fire protection water quality policies required by the Center for Medicare and Medicaid Services to minimize the development of legionella bacteria and other diseases in water systems. Students will create and demonstrate methods to survey/map, monitor, assess risk and remediate health hazards in building water systems, including documentation by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 188 Standard and ASHRAE 12 Guideline. In addition, students will review and take the American Society of Safety Engineers (ASSE) 12063 certification exam. 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 and define the requirements and responsibilities for the ASSE 12060 Water Quality Program for Employers and Designated Representatives and the ASSE 12063 Water Quality Program for Fire Protection.

Assessment 1

Assessment Tool: Outcome-related questions on the written exam

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. Demonstrate a building risk assessment for a fire protection system as per ASSE requirements.

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 will score 80% or higher.

Who will score and analyze the data: U.A. instructors

3. Retrieve and test a water quality sample from an identified control point and complete a Chain-of-Custody form.

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 will score 80% or higher.

Who will score and analyze the data: U.A. instructors

Course Objectives

1. Discuss and review ASSE 12060 and 12063 regulations and policy.
2. Locate and review instructional resources available for the Water Quality Fire Protection Program.
3. Demonstrate the use of instructional resources in classroom activities available for use at the local Training Center.
4. Identify and discuss procedures for performing a building risk assessment for a fire protection system.
5. Recognize the purpose of predetermined control points.
6. Recognize the purpose of predetermined control points.

7. Complete a risk assessment matrix sample form.
8. Discuss the safety precautions and the personal protective equipment (PPE) required when testing a fire protection system.
9. Discuss the procedure and process of taking water samples from a predetermined control point.
10. Collect water sample from a predetermined control point of fire protection system in accordance with protocol as per ASSE 12061 Water Quality Program for Plumbers.
11. Label and document water samples, and complete the required Chain-of-Custody form.

New Resources for Course

Course Textbooks/Resources

Textbooks

International Association of Plumbing and Mechanical Officials. *Water Quality Program: Healthcare Application Handbook for Signatory Contractors and UA Members*, first ed. IAPMO Group, 2019

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>Jul 07, 2020</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Jul 08, 2020</i>
Dean: <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>Aug 07, 2020</i>
Curriculum Committee Chair: <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Oct 26, 2020</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Oct 27, 2020</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Oct 27, 2020</i>