

Washtenaw Community College Comprehensive Report

UAT 185 Inspection, Testing, and Maintenance (ITM) of Fire Protection Systems/ASSE15000 (UA 7050) Effective Term: Fall 2020

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 185

Org Number: 28200

Full Course Title: Inspection, Testing, and Maintenance (ITM) of Fire Protection Systems/ASSE15000 (UA 7050)

Transcript Title: ITM Fire Protect Systems 7050

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 identify and study the codes for inspection and testing of water-based fire protection systems in accordance with the National Fire Protection Association (NFPA 25). Students will review the process and documentation, as well as perform hands-on testing, including the maintenance required to restore the system to normal operation. In addition, students will have the opportunity to take the American Society of Safety Engineers (ASSE) 15000 Water-Based Fire Protection certification exam. Limited to United Association program participants.

Course Credit Hours

Variable hours: No

Credits: 3

Lecture Hours: Instructor: 45 **Student:** 45

The following Lab fields are not divisible by 15: Student Min, Instructor Min

Lab: Instructor: 3 **Student:** 3

Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 48 **Student:** 48

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 the codes and standards for inspection, testing and maintenance of a fire protection system.

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. Demonstrate a main drain test, dry valve test and fire pump test in accordance with NFPA 25.

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. Identify codes and standards for the inspection, testing and maintenance of water-based fire protection systems.
2. Discuss the application of codes and the process for documentation.
3. Locate and navigate online resources for references to tests and NFPA documentation.
4. Discuss and demonstrate the sequencing of a main drain test, including documentation and system restoration.
5. Discuss and demonstrate sequencing of dry valve trip test, including documentation and system restoration.
6. Discuss and demonstrate the sequencing of a pre-action valve trip test, including documentation and system restoration.
7. Discuss and demonstrate the sequencing of a fire pump test at 100% and 150% churn, including documentation and system restoration.
8. Discuss all safety issues involved in performing tests, including personal protective equipment (PPE), lockout/tagout and pressure concerns.
9. Discuss equipment used for testing.
10. Review the history of water-based fire protection systems and the need for standards.

New Resources for Course**Course Textbooks/Resources**

Textbooks

National Fire Protection Association. *NFPA 20*, ed. NFPA, 2013
 National Fire Protection Association. *NFPA 25*, ed. NFPA, 2014
 National Fire Protection Association . *NFPA 13*, ed. NFPA, 2017
 National Fire Protection Association. *NFPA 14*, ed. NFPA, 2013

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>May 29, 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 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>