

## Washtenaw Community College Comprehensive Report

### UAT 181 Fire Pumps and Inspection (UA 7041)

Effective Term: Spring/Summer 2018

#### Course Cover

**Division:** Advanced Technologies and Public Service Careers

**Department:** United Association Department

**Discipline:** United Association Training

**Course Number:** 181

**Org Number:** 28200

**Full Course Title:** Fire Pumps and Inspection (UA 7041)

**Transcript Title:** Fire Pumps & Inspection (7041)

**Is Consultation with other department(s) required:** No

**Publish in the Following:** College Catalog , Web Page

**Reason for Submission:** New Course

**Change Information:**

**Rationale:** New UAT course

**Proposed Start Semester:** Spring/Summer 2018

**Course Description:** In this course, students will learn teaching methods, working procedures and skills involved in the proper installation, inspection, and testing of various types of Aurora fire pumps. The course includes hands-on workshops in which participants will inspect, test, adjust, and troubleshoot problems, as well as perform a pump test. Furthermore, this course will also address code requirements for National Fire Protection Association (NFPA) 20, 25, and Protective Personal Equipment (PPE) for NFPA 75. 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. Apply NFPA 25 regulations to the testing and inspection of fire pumps.

### **Assessment 1**

Assessment Tool: Skills demonstration

Assessment Date: Spring/Summer 2021

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Skills demonstration checklist

Standard of success to be used for this assessment: 90% of students will score 100%

Who will score and analyze the data: U.A. training coordinator

2. Complete full flow fire pump documentation.

### **Assessment 1**

Assessment Tool: Written exam

Assessment Date: Spring/Summer 2021

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: 90% of students will score 100%

Who will score and analyze the data: U.A. training coordinator

3. Describe NPFA 20, 25 and 75 code requirements.

### **Assessment 1**

Assessment Tool: Teaching demonstration

Assessment Date: Spring/Summer 2021

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Observation checklist

Standard of success to be used for this assessment: 90% of students will scored 100%

Who will score and analyze the data: U.A. training coordinator

## **Course Objectives**

1. Compare and contrast proper and improper fire pump installations including piping arrangements.
2. Demonstrate annual test procedures.
3. Demonstrate test equipment and calibration methods as well as Personal Protective Equipment (PPE) needed for inspection and full-flow testing.
4. Perform full-flow fire pump testing and complete proper documentation needed.
5. Compare and contrast proper and incorrect pump alignment and its significance in overall efficiency and operation of the system.
6. Review the safety hazards involved in the testing and inspection of fire pumps along with lock out/tag out procedures.
7. Discuss the methods of instruction of course material at the students' local training centers.
8. Review code requirements NFPA 20, 25, and 75 and their significance in the industry.

## **New Resources for Course**

**Course Textbooks/Resources**

Textbooks  
 Manuals  
 Periodicals  
 Software

**Equipment/Facilities**

<b><u>Reviewer</u></b>	<b><u>Action</u></b>	<b><u>Date</u></b>
<b>Faculty Preparer:</b> <i>Tony Esposito</i>	<i>Faculty Preparer</i>	<i>Dec 01, 2017</i>
<b>Department Chair/Area Director:</b> <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Jan 03, 2018</i>
<b>Dean:</b> <i>Brandon Tucker</i>	<i>Recommend Approval</i>	<i>Jan 08, 2018</i>
<b>Curriculum Committee Chair:</b> <i>David Wooten</i>	<i>Recommend Approval</i>	<i>Apr 16, 2018</i>
<b>Assessment Committee Chair:</b> <i>Michelle Garey</i>	<i>Recommend Approval</i>	<i>Mar 28, 2018</i>
<b>Vice President for Instruction:</b> <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Apr 19, 2018</i>