

Washtenaw Community College Comprehensive Report

UAT 177 Victaulic Vortex System Training (UA 7001)

Effective Term: Spring/Summer 2024

Course Cover

College: Advanced Technologies and Public Service Careers

Division: Advanced Technologies and Public Service Careers

Department: United Association Department (UAT Only)

Discipline: United Association Training

Course Number: 177

Org Number: 28200

Full Course Title: Victaulic Vortex System Training (UA 7001)

Transcript Title: Victaulic Vortex System 7001

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: Spring/Summer 2024

Course Description: In this course students will learn detailed information on the Victaulic Vortex system, including the installation process, design guidelines, basic functions and operations, as well as how to place the system in maintenance mode for servicing. Students will develop an understanding of the science upon which the system was built as well as demonstrate proper installation and testing methods. Inspection Testing and Maintenance (ITM) for Victaulic Vortex Systems will be discussed as well as the requirements for NFPA 770. 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. Demonstrate the operation of Victaulic Vortex Fire Extinguishing system and its components.

Assessment 1

Assessment Tool: Outcome-related demonstration

Assessment Date: Spring/Summer 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: 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. Describe how a Victaulic Vortex Fire Extinguishing System operates as well as the parameters and limitations as to where it is installed.

Assessment 1

Assessment Tool: Outcome-related demonstration

Assessment Date: Spring/Summer 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: 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. Demonstrate troubleshooting techniques involved in maintaining Victaulic Vortex systems.

Assessment 1

Assessment Tool: Outcome-related demonstration

Assessment Date: Spring/Summer 2024

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: 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 Victaulic Vortex System components and their functions.
2. Discuss the Victaulic Vortex Fire Extinguishing System and the standard pressures and readings associated with normal operation.
3. Discuss and recognize where Victaulic Vortex systems can be installed as well as the limitations and parameters of safe operation.
4. Explain the process used to set up, commission and refill the nitrogen cylinders.
5. Identify and demonstrate the procedure for filling the system's nitrogen cylinders as well as the safety precautions involved.
6. Discuss troubleshooting tips for faulty devices.

7. Discuss and demonstrate the testing devices and the setpoints used during the maintenance and troubleshooting of the Victaulic Vortex systems.
8. Review the history of building fire extinguishing systems and fire suppression systems.
9. Identify the policy and process for monthly, bi-annual, and yearly maintenance of the Victaulic Vortex System.
10. Review the personal protective equipment (PPE) required when performing maintenance and troubleshooting on Victaulic Vortex Systems.

New Resources for Course

Course Textbooks/Resources

Textbooks

Manuals

Victaulic Company. Victaulic Vortex Installation Manual, Victaulic Compnay, 04-30-2022

Periodicals

Software

Equipment/Facilities

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Tony Esposito</i>	<i>Faculty Preparer</i>	<i>Jan 02, 2024</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Jan 02, 2024</i>
Dean: <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>Jan 10, 2024</i>
Curriculum Committee Chair: <i>Randy Van Wagnen</i>	<i>Recommend Approval</i>	<i>Mar 20, 2024</i>
Assessment Committee Chair: <i>Jessica Hale</i>	<i>Recommend Approval</i>	<i>Mar 21, 2024</i>
Vice President for Instruction: <i>Brandon Tucker</i>	<i>Approve</i>	<i>Apr 06, 2024</i>