

# Washtenaw Community College Comprehensive Report

## UAT 365 Viega Train the Trainer (UA 4017) Effective Term: Winter 2024

### Course Cover

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

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

**Department:** United Association Department

**Discipline:** United Association Training

**Course Number:** 365

**Org Number:** 28200

**Full Course Title:** Viega Train the Trainer (UA 4017)

**Transcript Title:** Viega Train the Trainer (4017)

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

**Publish in the Following:**

**Reason for Submission:** New Course

**Change Information:**

**Rationale:** New U.A. Course

**Proposed Start Semester:** Winter 2024

**Course Description:** In this course, students will review Viega press connection piping systems including Copper Tube Size (CTS) metallic press systems for liquid and gas, Iron Pipe Size (IPS) metallic press systems for liquid and gas, and cross-linked polyethylene (PEX) press and crimp systems for plumbing and mechanical applications. Technical aspects, typical applications, installation best-practices, tooling, and pressure testing of these systems will be reviewed and demonstrated. Students will also review other topics that include approvals, codes, and standards governing these systems along with contrasting press technology to traditional methods of pipe joining. 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. Identify and cite the general applications, characteristics, and pressure thresholds of the various types of Viega press fittings and connection systems.

### **Assessment 1**

Assessment Tool: Outcome-related demonstration

Assessment Date: Winter 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 students will score 80% or higher.

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

2. Select, prepare and assemble fittings, pipe and tube for various piping systems according to the manufacturer's procedures.

### **Assessment 1**

Assessment Tool: Outcome-related demonstration

Assessment Date: Winter 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 students will score 80% or higher.

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

3. Discuss and demonstrate the causes, management, and solutions to press deflection in Viega piping systems.

### **Assessment 1**

Assessment Tool: Outcome-related demonstration

Assessment Date: Winter 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 students will score 80% or higher.

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

4. Identify, test and repair unsatisfactory piping system fittings and connections.

### **Assessment 1**

Assessment Tool: Outcome-related demonstration

Assessment Date: Winter 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 students will score 80% or higher.

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

### **Course Objectives**

1. Identify each of the various Viega press systems.
2. Cite the general applications, specifications, and limitations of each piping system.
3. Explain the technical aspects of each system.
4. Discuss the construction of each system and the functions of all components.
5. Identify the pressure testing procedures for the pressure thresholds for each system.
6. Review the safety precautions and personal protective equipment (PPE) required for press tool operation.
7. Identify the proper procedure and correct tooling for joining various press connected pipe and tubing.
8. Prepare a section of pipe and tube for pressing.
9. Demonstrate the assembly, marking, and pressing of a complete joint in each of the Viega press systems.
10. Describe what causes press tool deflection in the fittings and connections of Viega press systems.
11. Manage deflection and counteract deflection forces during press tool operation.
12. Describe the method for identifying and repairing un-pressed connections within a Viega piping system prior to commissioning.
13. Compose a chemical compatibility request for non-published applications.
14. Compare and contrast Viega equipment, tools, and methods with those of other companies.

### **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>May 26, 2023</i>
<b>Department Chair/Area Director:</b> <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Jun 01, 2023</i>
<b>Dean:</b> <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>Jun 07, 2023</i>
<b>Curriculum Committee Chair:</b> <i>Randy Van Wagnen</i>	<i>Recommend Approval</i>	<i>Oct 03, 2023</i>
<b>Assessment Committee Chair:</b> <i>Jessica Hale</i>	<i>Recommend Approval</i>	<i>Oct 04, 2023</i>
<b>Vice President for Instruction:</b> <i>Brandon Tucker</i>	<i>Approve</i>	<i>Oct 06, 2023</i>