

Washtenaw Community College Comprehensive Report

UAT 362 Advance Valve Repair Instructor (UA 5007) Effective Term: Fall 2020

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: United Association Training

Course Number: 362

Org Number: 28200

Full Course Title: Advance Valve Repair Instructor (UA 5007)

Transcript Title: Adv Valve Repair Instruct 5007

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Web Page

Reason for Submission: Course Change

Change Information:

Consultation with all departments affected by this course is required.

Course title

Course description

Outcomes/Assessment

Objectives/Evaluation

Rationale: Update United Association course

Proposed Start Semester: Fall 2020

Course Description: In this course, students will identify maintenance procedures and hydraulic torquing for pneumatic control valves and pressure seal valves. Students will disassemble, inspect, and reassemble valves according to procedures in a hands-on environment. In addition, students will navigate other resources such as 3-D imagery DVDs and the online Quality Systems Manual website to identify documentation and certification resources for use at their local Training Centers. The title of this course was previously Valve Repair Recertification. 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 analyze the process of valve repair in the UA Quality Systems Manual located on the UANET.org website and required forms.

Assessment 1

Assessment Tool: Outcome-related multiple-choice 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. Prepare and present a lesson plan for activities, assignments and the instructional resources to be used at the student's local Training Center.

Assessment 1

Assessment Tool: Presentation

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: Observation 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. Disassemble, inspect and reassemble pneumatic control valves and pressure seal valves.

Assessment 1

Assessment Tool: Skills 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: Skills 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 tools and equipment used in proper valve disassembly and repair.
2. Identify relevant sections of the Quality System Manual for valve repair.

3. Complete required forms for UA submission.
4. Review the process, documentation, and retention of forms and files used for certifications.
5. Locate, navigate, and customize UA Online Learning Resources (UAOLR) for use at local Training Center.
6. Discuss the DVD of hydraulic torquing of pneumatic control valves and pressure seal valves using 3-D imagery.
7. Discuss the process of ordering and proctoring computerized exams.
8. Create and demonstrate required lab work stations for valve repair.
9. Demonstrate the proper disassembly and reassembly of valves.
10. Demonstrate valve inspection and troubleshooting given predetermined faults.
11. Review safety requirements and personal protective equipment (PPE) needed for hands-on demonstration of valve repair.
12. Create and present a five-minute lesson plan for class critique.

New Resources for Course

Course Textbooks/Resources

Textbooks
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 13, 2020</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>May 20, 2020</i>
Dean: <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>May 27, 2020</i>
Curriculum Committee Chair: <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Sep 25, 2020</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Sep 30, 2020</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Oct 06, 2020</i>