

Washtenaw Community College Comprehensive Report

UAT 356 Corrosive Resistant Alloys Effective Term: Spring/Summer 2014

Course Cover

Division: Advanced Technologies and Public Service Careers
Department: United Association Department
Discipline: United Association Training
Course Number: 356
Org Number: 28200
Full Course Title: Corrosive Resistant Alloys
Transcript Title: Corrosive Resistant Alloys
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Web Page
Reason for Submission: Three Year Review / Assessment Report
Change Information:
 Credit hours
 Total Contact Hours
 Outcomes/Assessment
 Objectives/Evaluation

Rationale: Course update

Proposed Start Semester: Spring/Summer 2014

Course Description: In this course, students will develop methods of teaching that focus on the procedures and techniques utilized in welding corrosion resistant alloys such as high nickel alloys. As the piping industry turns to the use of these materials, students train their members to develop the skills necessary to address the industry's welding needs. Students must provide their own personal safety equipment. Limited to United Association Instructor Training program graduates.

Course Credit Hours

Variable hours: No

Credits: 1

Lecture Hours: Instructor: 15 Student: 15

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

Lab: Instructor: 5 Student: 5

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 20 Student: 20

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

No Level Required

Requisites

Enrollment Restrictions

Open only to graduates of the UA Instructor Training Program.

General Education

Degree Attributes

Below College Level Pre-Reqs

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Identify common problems with welds on corrosive resistant materials.

Assessment 1

Assessment Tool: Written exam

Assessment Date: Spring/Summer 2014

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: 75% of students will achieve 75% or above.

Who will score and analyze the data: Departmental faculty

2. Demonstrate methods of teaching the concepts of welding corrosion resistant alloys.

Assessment 1

Assessment Tool: Presentation

Assessment Date: Spring/Summer 2014

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: performance parameters with rubric

Standard of success to be used for this assessment: 75% of students will achieve 75% or above.

Who will score and analyze the data: Departmental faculty

3. Demonstrate teaching practicum for welding corrosion resistant alloys.

Assessment 1

Assessment Tool: Skill assessment

Assessment Date: Spring/Summer 2014

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 with rubric

Standard of success to be used for this assessment: 75% of students will achieve 75% or above.

Who will score and analyze the data: Departmental faculty

Course Objectives

1. Provide a teaching explanation of the need for corrosion resistant alloys in the piping industry.

Matched Outcomes

2. Identify specific weld procedures used for corrosive resistant alloys.

Matched Outcomes

3. Demonstrate proper safety precautions used when welding special alloys.

Matched Outcomes

4. Demonstrate correct joining techniques for welding special alloys.

Matched Outcomes

5. Prepare teaching strategies to use UA and vendor supplied teaching aids and material when teaching corrosive resistant alloy material at the home local.

Matched Outcomes

6. Demonstrate how to set up a purge on a coupon.

Matched Outcomes

7. Demonstrate proper procedures for welding high nickel materials.

Matched Outcomes

8. Demonstrate a teaching explanation of common issues with welding corrosive resistant materials.

Matched Outcomes

New Resources for Course

Course Textbooks/Resources

Textbooks

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

Reviewer

Action

Date

Faculty Preparer:

Amanda Scheffler

Faculty Preparer

Jul 25, 2013

Department Chair/Area Director:

Scott Klapper

Recommend Approval

Feb 03, 2014

Dean:

Marilyn Donham

Recommend Approval

Feb 05, 2014

Vice President for Instruction:

Bill Abernethy

Approve

Apr 28, 2014