

Washtenaw Community College Comprehensive Report

UAT 371 Crane Signalperson Training and Certification (UA 5012) Effective Term: Fall 2025

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: 371

Org Number: 28200

Full Course Title: Crane Signalperson Training and Certification (UA 5012)

Transcript Title: Crane Signalprsn Trn/Cert 5012

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Web Page

Reason for Submission: Course Change

Change Information:

Course title

Course description

Outcomes/Assessment

Objectives/Evaluation

Rationale: Update United Association course with current technologies available.

Proposed Start Semester: Fall 2024

Course Description: In this course, students will review, and demonstrate the requirements for a certified crane signal person as required by Occupational Safety and Health Administration (OSHA) in 29 Code of Federal Regulations (CFR) §1926, along with American Society of Mechanical Engineering (ASME) B30.3 and B30.5. Learning activities include a combination of practice scenarios along with animations and videos to illustrate the standard hand signals, and crane characteristics/limitations. Performance as an examiner will be observed and evaluated with a written and practical exam. Students review the computer-delivered UA Signal Person Practical Exam process including how to initiate, administer, and conclude test sessions. At the end of this course, students will have the opportunity to take the American Society of Safety Engineers (ASSE) certification exam. The title of this course was previously Crane Signalperson Training and Certification. 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

No Level Required

Requisites**General Education****Degree Attributes**

Below College Level Pre-Reqs

Request Course Transfer**Proposed For:****Student Learning Outcomes**

1. Identify the OSHA requirements for Qualified Crane Signalperson in accordance with OSHA standards 1926.1419-1422.

Assessment 1

Assessment Tool: Outcome-related quiz

Assessment Date: Spring/Summer 2025

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. Recognize safe work practices and requirements for the safe hoisting of personnel with a crane.

Assessment 1

Assessment Tool: Outcome-related quiz

Assessment Date: Spring/Summer 2025

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

3. Demonstrate the elements required to complete the United Association Crane Signal Person Certification examination successfully.

Assessment 1

Assessment Tool: Outcome-related exam

Assessment Date: Spring/Summer 2025

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 and ASSE Instructors

Course Objectives

1. Examine the OSHA Standards §1926.1419 - 1422 & 1428 for referencing aerial lifting, cranes, and signaling.
2. Explain crane operations and discuss the limitations for moving materials and working around electrical powerlines.
3. Explain and demonstrate the identification of safe work practices with cranes and construction material.
4. Explain the OSHA requirements for the hoisting of personnel with a lift platform.
5. Navigate the UA online learning resources (OLR) and the ASSE websites for training, studying, and testing purposes.
6. Review the process to log in, test, and submit the UA Crane Signaller Written Certification Exam on the ASSE website.
7. Review the process to log in, test, and submit the UA Crane Signaller Practical Certification Exam on the UAOLR.
8. Review personal protective equipment (PPE) used in aerial lifts and working near cranes.
9. Compare and contrast the different methods of raising and hoisting material and equipment used on a construction jobsite.
10. Demonstrate visual hand-signaling and procedures for lifting and hoisting loads.

New Resources for Course

Course Textbooks/Resources

Textbooks

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer:		
<i>Tony Esposito</i>	<i>Faculty Preparer</i>	<i>May 10, 2024</i>
Department Chair/Area Director:		
<i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>May 10, 2024</i>
Dean:		
<i>Eva Samulski</i>	<i>Recommend Approval</i>	<i>May 15, 2024</i>
Curriculum Committee Chair:		
<i>Randy Van Wagnen</i>	<i>Recommend Approval</i>	<i>Jun 04, 2025</i>
Assessment Committee Chair:		
<i>Jessica Hale</i>	<i>Recommend Approval</i>	<i>Jun 09, 2025</i>
Vice President for Instruction:		
<i>Brandon Tucker</i>	<i>Approve</i>	<i>Jun 10, 2025</i>

Washtenaw Community College Comprehensive Report

UAT 371 Crane Signalperson Training and Certification Effective Term: Fall 2010

Course Cover

Division: Vocational Technologies
Department: United Association Department
Discipline: United Association Training
Course Number: 371
Org Number: 28200
Full Course Title: Crane Signalperson Training and Certification
Transcript Title: Crane Signalperson Tra. Cert.
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Web Page
Reason for Submission: New Course
Change Information:
Rationale: This course is part of the United Association's ITP.
Proposed Start Semester: Fall 2010
Course Description:

This course uses the OSHA Signalperson Training Program, which is a state of the art interactive signalperson training aid. The course covers all pertinent requirements of the current OSHA 1926.550, ASME B30.5, B30.23, and even the proposed OSHA Cranes and Derrick Standard 1926.1400. The course covers theoretical and practical components of signaling and crane characteristics and limitations. This course uses instructor materials which include practice scenarios so that signaling becomes second nature to students. Certification and Examiner (proctor) credentials are awarded upon successful completion of the course. Limited to United Association Instructor Training program graduates.

Course Credit Hours

Variable hours: No
Credits: 1.5
Lecture Hours: Instructor: 15 **Student:** 15
The following Lab fields are not divisible by 15: Student Min, Instructor Min
Lab: Instructor: 7.5 **Student:** 7.5
Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 22.5 **Student:** 22.5
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

This course is only open to graduates of the UA ITP.

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Explain to journeymen and apprentices relevant codes covering signalpersons on the jobsite.

Assessment 1

Assessment Tool: Survey of UA training coordinators/supervisors.

Assessment Date: Spring/Summer 2012

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: Random sampling of 50% of all students teaching related topics the subsequent year.

How the assessment will be scored: The student's training activities will be scored and evaluated on the survey questionnaire for each of the outcomes.

Standard of success to be used for this assessment: 75% of all student-instructors will score satisfactory or above on the Training Coordinator survey.

Who will score and analyze the data: The UA Program Administrator will coordinate the collection of data with the UA Training Department staff and will share results with ITP teaching faculty.

2. Demonstrate proper techniques for signal crane operators.

Assessment 1

Assessment Tool: Survey of UA training coordinators/supervisors.

Assessment Date: Spring/Summer 2012

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: Random sampling of 50% of all students teaching related topics the subsequent year.

How the assessment will be scored: The student's training activities will be scored and evaluated on the survey questionnaire for each of the outcomes.

Standard of success to be used for this assessment: 75% of all student-instructors will score satisfactory or above on the Training Coordinator survey.

Who will score and analyze the data: The UA Program Administrator will coordinate the collection of data with the UA Training Department staff and will share results with ITP teaching faculty.

3. Effectively utilize UA, OSHA, ASME and vendor supplied teaching materials for Crane Signaling.

Assessment 1

Assessment Tool: Survey of UA training coordinators/supervisors.

Assessment Date: Spring/Summer 2012

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: Random sampling of 50% of all students teaching related topics the subsequent year.

How the assessment will be scored: The student's training activities will be scored and evaluated on the survey questionnaire for each of the outcomes.

Standard of success to be used for this assessment: 75% of all student-instructors will score satisfactory or above on the Training Coordinator survey.

Who will score and analyze the data: The UA Program Administrator will coordinate the collection of data with the UA Training Department staff and will share results with ITP teaching faculty.

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Course Objectives

1. Explain to apprentices and journeymen OSHA relevant to crane signaling.

Methods of Evaluation

Individual or Group Performance, Project or Presentation

Matched Outcomes

2. Explain to apprentices and journeymen ASME relevant to crane signaling.

Methods of Evaluation

Individual or Group Performance, Project or Presentation

Matched Outcomes

3. Describe proposed local, state and OSHA standards at the home local.

Methods of Evaluation

Individual or Group Performance, Project or Presentation

Matched Outcomes

4. Demonstrate proper hand signals to a crane operator based on work scenarios.

Methods of Evaluation

Activity or Exercise

Exams/Tests

Individual or Group Performance, Project or Presentation

Matched Outcomes

2. Demonstrate proper techniques for signal crane operators.

5. Conduct practice signaling sessions with students.

Methods of Evaluation

Activity or Exercise

Individual or Group Performance, Project or Presentation

Matched Outcomes

2. Demonstrate proper techniques for signal crane operators.

6. Demonstrate appropriate use of UA, OSHA, ASME and vendor provided materials in teaching crane signaling at the home local.

Methods of Evaluation

Individual or Group Performance, Project or Presentation

Matched Outcomes

New Resources for Course

Course Textbooks/Resources

Textbooks

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

Reviewer

Faculty Preparer:

Department Chair/Area Director:

Daniel Welch

Dean: *Daniel Welch*

Vice President for Instruction: *Stuart*

Action

Faculty Preparer

Recommend Approval

Recommend Approval

Date

Dec 20, 2010

Dec 20, 2010

Dec 20, 2010

