

Washtenaw Community College Comprehensive Report

TRL 101 Signal Person Qualification Effective Term: Spring/Summer 2020

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: Trade Related Learning

Course Number: 101

Org Number: 28000

Full Course Title: Signal Person Qualification

Transcript Title: Signal Person Qualification

Is Consultation with other department(s) required: No

Publish in the Following:

Reason for Submission: New Course

Change Information:

Rationale: New course for RWREJTF (Roofers and Waterproofers)

Proposed Start Semester: Spring/Summer 2020

Course Description: In this course, students will recognize and demonstrate the proper methods and use of hand, voice and system-generated crane signaling according to OSHA 29CFR part 1926 and ASME Standards 830.23, 830.3, and 830.5. Students will also be able to identify and demonstrate various aspects of crane dynamics and crane movements while signals are given. Students will prepare a lesson plan for presenting the 8-hour Qualified Signal Person course at their training center. Limited to approved union 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. Identify proper crane signals and basic crane dynamics.

Assessment 1

Assessment Tool: Outcome-related exam questions

Assessment Date: Spring/Summer 2023

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: RWREJTF Instructors

2. Demonstrate crane signaling in varying environments and situations.

Assessment 1

Assessment Tool: Skills demonstration

Assessment Date: Spring/Summer 2023

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Rubric

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: RWREJTF Instructors

3. Prepare and present a lesson plan for one aspect of crane signaling and present to class.

Assessment 1

Assessment Tool: Teaching demonstration

Assessment Date: Spring/Summer 2023

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Rubric

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: RWREJTF Instructors

Course Objectives

1. Review, discuss, and identify crane dynamics and the physics required in lifting loads.
2. List, identify, and demonstrate crane signaling techniques used in the construction industry.
3. Compare and contrast the advantages and disadvantages of crane signaling techniques as they pertain to location, environment, and weather.
4. Identify the OSHA 29 CFR part 1926 and ASME Standards 830.5, 830.23 requirements for Signal Person.
5. Identify policies and procedures required during a crane lift.
6. Access RWREJTF online trainer, instructor materials, and other resources available.
7. Prepare and present a lesson plan from subject matter.
8. Discuss and critique other students' teaching demonstrations.
9. Identify safety issues and equipment used with crane lifting and signaling.

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>Feb 07, 2020</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>Feb 07, 2020</i>
Dean: <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>Feb 11, 2020</i>
Curriculum Committee Chair: <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Mar 14, 2020</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Apr 23, 2020</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Apr 24, 2020</i>