

Washtenaw Community College Comprehensive Report

TRL 105 Qualified Rigger Person Effective Term: Fall 2022

Course Cover

College: Advanced Technologies and Public Service Careers

Division: Advanced Technologies and Public Service Careers

Department: United Association Department

Discipline: Trade Related Learning

Course Number: 105

Org Number: 28000

Full Course Title: Qualified Rigger Person

Transcript Title: Qualified Rigger Person

Is Consultation with other department(s) required: No

Publish in the Following:

Reason for Submission:

Change Information:

Other:

Rationale: Full Approval for TRL

Proposed Start Semester: Fall 2022

Course Description: In this course, students will recognize and demonstrate the proper methods and procedures used in the set-up, inspection, and operation of rigging equipment as used in overhead material lifting according to Occupational Safety and Health Administration (OSHA) and American Society of Mechanical Engineers (ASME) construction standards. Attendees will also prepare a lesson plan for presenting the 8-hour Qualified Rigger course at their local 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. Demonstrate the inspection and use of standard rigging equipment in accordance with OSHA and ASME standards.

Assessment 1

Assessment Tool: Outcome-related skills demonstration

Assessment Date: Fall 2022

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 the students will score 80% or higher.

Who will score and analyze the data: RWREJTF instructors

2. Demonstrate rigging and lifting varying loads by calculating load weight, stress points, and slip angles to rigging procedures in accordance with OSHA and ASME standards.

Assessment 1

Assessment Tool: Outcome-related skills demonstration

Assessment Date: Fall 2022

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 the students will score 80% or higher.

Who will score and analyze the data: RWREJTF instructors

3. Present a lesson plan for one aspect of rigging and present to class.

Assessment 1

Assessment Tool: Presentation

Assessment Date: Fall 2022

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed 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 rigging equipment used in overhead lifting in the construction industry.
2. Review the history of the methods for rigging and lifting equipment used in the construction industry.
3. Discuss documentation required when performing overhead lifting operations.
4. Demonstrate rigging and attachment techniques used in the construction industry.
5. Identify safety issues and equipment used with during rigging operations.
6. Identify the proper personal protective equipment (PPE) and safety practices used during overhead lifting.

7. Demonstrate proper inspection and removal protocol of rigging equipment.
8. Identify the inspection procedures used for rigging equipment and policy for removal deeming equipment out of commission (OOC).
9. Identify OSHA and ASME standards requirements for overhead lifting and rigging.
10. Identify policies and procedures required during hoisting activities.
11. Determine the center of gravity for loads and calculate their weights.
12. Identify slings used for lifting loads based on their weight and center of gravity.
13. Identify conditions, instances, and events that can cause changes during overhead lifting operations.
14. Identify, discuss, and access RWREJTF online trainer, instructor materials, and other resources available for use at local training centers.
15. Prepare and present a lesson plan from the provided subject matter.
16. Discuss and critique students' presentations.

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 26, 2022</i>
Department Chair/Area Director: <i>Marilyn Donham</i>	<i>Recommend Approval</i>	<i>May 26, 2022</i>
Dean: <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>May 26, 2022</i>
Curriculum Committee Chair: <i>Randy Van Wagnen</i>	<i>Recommend Approval</i>	<i>Oct 04, 2022</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Oct 11, 2022</i>
Vice President for Instruction: <i>Victor Vega</i>	<i>Approve</i>	<i>Oct 13, 2022</i>