Clackamas Community College

Online Course/Outline Submission System

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Section #1 General Course Information

Department: Manufacturing

Submitter

First Name: Mike
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Course Prefix and Number: IMT - 108

 # Credits: 2

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 44
Lab (# of hours):
Total course hours: 44

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title: Rigging and Lifting

Course Description:

This course provides instruction in rigging and lifting techniques including usage and inspection of rigging equipment, developing lift plans, anchoring to concrete, and heavy machinery installation. Students will be expected to perform lifts independently and in groups.

Type of Course: Career Technical Preparatory

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

No

Does this course map to any general education outcome(s)?

No

Is this course part of an AAS or related certificate of completion?

Yes

Name of degree(s) and/or certificate(s): Industrial Maintenance Technology

Are there prerequisites to this course?

Yes

Pre-reqs: MTH-050

Have you consulted with the appropriate chair if the pre-req is in another program?

No

Are there corequisites to this course?

No

Are there any requirements or recommendations for students taken this course?

No

Are there similar courses existing in other programs or disciplines at CCC?

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit: Yes

When do you plan to offer this course?

✓ Fall

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

Upon successful completion of this course, students should be able to:

1. use accurate terminology to identify the basic tools used in rigging;
2. inspect basic rigging equipment for safe working load limits and damaged components;
3. calculate the weight of a load, the sling angle load factor, the safe working load limits of the lifting tools, and the center of gravity of a load prior to lifting;
4. safely perform the transportation, accurate positioning, and installation of heavy equipment and machinery;
5. install seismic anchoring fasteners in concrete, in conformance to applicable building codes;
6. apply the principles of rigging to safely lift large loads.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Basic measurement units and conversions
2. Introduction to industrial rigging
3. Industrial hoists and cranes
4. Hoists and cranes operating practices
5. Scaffolds and ladders
6. Preparing the installation site
7. Vibration control and anchoring
8. Moving and setting equipment
9. Leveling and aligning equipment
10. Checking and test running equipment

Does the content of this class relate to job skills in any of the following areas:

1. Increased energy efficiency	**No**
2. Produce renewable energy	**No**
3. Prevent environmental degradation	**No**
4. Clean up natural environment	**No**
5. Supports green services	**No**

Percent of course: 0%

First term to be offered:

Next available term after approval
: