

Clackamas Community College

Online Course/Outline Submission System

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 will introduce students to installation procedures for large plant equipment. Students will learn about techniques and safeguards in the use of rope, chain, hoists, and scaffolding when moving heavy plant equipment and maintaining plant utilities.

Type of Course: Career Technical Preparatory

Reason for the new course:

Industry demand

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: No

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. Describe basic measurement units and calculate conversions between units,
2. Identify tools used in rigging and explain the purpose of each tool,
3. Use three methods to calculate the weight of a load,
4. Describe center of gravity and its importance in rigging a load,
5. Describe four common sling arrangements,
6. Describe the characteristics of the various kinds of overhead hoists,
7. Summarize the general operating practices that apply to all tools of rigging,
8. Summarize the construction of pole and suspension scaffolds and lift platforms,
9. Summarize the procedures involved in relocating existing equipment,
10. Identify the most common leveling device used for small equipment,
11. Identify three tools commonly used to check alignment,
12. Recall the steps to take before initial equipment startup.

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:

Specify term: Spring 2017
