

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 - 110

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: Preventative Maintenance

Course Description:

This Course will introduce students to the basics of preventative maintenance programs in an industrial environment. Students will learn about how maintenance departments are organized, how projects and tasks are defined and delegated. Topics will include Maintenance organization, work order systems, maintenance planning, Scheduling, Quality control, Controlling parts and materials costs.

Type of Course: Career Technical Preparatory

Reason for the new course:

Industry demand

Is this class challengeable?

No

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?

✓ **Spring**

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. articulate the functions and uses of a work order system in preparing a comprehensive preventative maintenance program;
2. develop work standards and describe how they are used in preventative maintenance;
3. apply scheduling and forecasting systems in a maintenance organization;
4. explain the role of quality control in preventative maintenance;
5. compute workload measurements and apply labor costs controls;
6. implement a parts and materials inventory system;
7. manage and control shop and field maintenance projects.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Functions of industrial maintenance operations.
2. Work order systems.
3. Information creation and use of other information sources.
4. Application of work standards.

5. Maintenance scheduling and forecasting systems.
6. Work activity management.
7. Quality control of work activities.
8. Measuring workloads.
9. Controlling costs.
10. Part and material inventory systems.

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

:
