

Clackamas Community College
Online Course/Outline Submission System

Section #1 General Course Information**Department:** Manufacturing**Submitter**

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Course Prefix and Number: MFG - 083**# Credits:** 2**Contact hours**

Lecture (# of hours): 20
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 20

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: Certified Production Technician (CPT) - Quality Practices & Measurement**Course Description:**

This course provides students exposure to quality assurance practices and processes common across multiple manufacturing sectors with a focus on standards for entry-level operator, processor and assembler jobs in the manufacturing and logistics industries. It will prepare students for the Manufacturing Skills Standards Council (MSSC) Certified Production Technician (CPT) Quality Assurance exam.

Type of Course: Career Technical Preparatory**Reason for the new course:**

Meeting industry request for entry-level worker training.

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?

No

Are there prerequisites to this course?

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:

Pass/No Pass Only

Audit: No

When do you plan to offer this course?

✓ Not every term

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 the function of a print and interpret engineering drawings,
2. identify and understand multi-view drawings,
3. describe basic dimensioning practices,
4. identify size and types of fasteners,
5. perform basic measurement with micrometers, calipers and gages;
6. explain the concept and defining practices of continuous improvement,
7. identify tools and documentation for inspection and auditing,
8. state the purpose of preventive and corrective action reports.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Continuous improvement
2. Inspection and auditing
3. Preventive and corrective actions
4. Multi-view drawings
5. Assembly drawings and fasteners
6. Geometric dimensioning and tolerancing
7. Basic measurement
8. Precision measurement tools
9. Dimensional gauging
10. Quality systems
11. Introduction to Statistical Process Control (SPC)
12. Control charts
13. Continuous improvement

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: Winter 2018
