

**Clackamas Community College**  
Online Course/Outline Submission System

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

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**Course Prefix and Number:** MFG - 082**# 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.

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**Course Title:** Certified Production Technician (CPT)- Manufacturing Processes & Production Control**Course Description:**

This course provides students exposure to production 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) Production Processes exam.

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**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?

**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 methods used to review customer needs,
2. describe the major stages involved in producing products,
3. define mechanical principles of mechanisms, force, torque and levers;
4. list production practices and the controlling documentation,
5. describe machining processes and tooling,
6. define the role of set-up and operation,
7. describe production planning and workflow,
8. identify product packaging and distribution methods.

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***This course does not include assessable General Education outcomes.***

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**Major Topic Outline:**

1. Production basics
2. Production materials
3. Production processes
4. Tool and equipment operation
5. Production planning and work flow
6. Production components
7. Controlling and documenting production
8. Packaging and distributing products
9. Mechanical principles
10. Mechanical linkages
11. Machining processes
12. Machine tooling
13. Machine operations
14. Equipment procedures
15. Production planning and workflow
16. Production control

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

- |                                      |           |
|--------------------------------------|-----------|
| 1. Increased energy efficiency       | <b>No</b> |
| 2. Produce renewable energy          | <b>No</b> |
| 3. Prevent environmental degradation | <b>No</b> |
| 4. Clean up natural environment      | <b>No</b> |
| 5. Supports green services           | <b>No</b> |

Percent of course: 0%

**First term to be offered:**

**Specify term:** Winter 2018

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