

Clackamas Community College

Online Course/Outline Submission System

Published Requests

MN-102 Certified Production Technician (CRT)- Manufacturing Processes & Production Control

General education certified: Yes **No**

- Writing
 Oral Communication
 Arts and Letters
 Science & Computer Science
 Mathematics
 Social Science
 Cultural Literacy
 Health & Physical Education

 Approved Date (mm/dd/yyyy): / / **Section #1 General Course Information****Department:** Manufacturing**Submitter**

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Email: paulw

Course Prefix and Number: MN - 102**# Credits:** 4**Contact hours**

Lecture (# of hours): 40

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 40

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 (CRT)- Manufacturing Processes & Production Control

Course Description:

This course is designed to provide students with entry-level understand of the Processes and Production Control practices common across multiple manufacturing sectors. This program focuses on a knowledge base identified by industry standards at the entry-level for operator, processor and assembler jobs in the manufacturing industries. This curriculum prepares students for one (1) of the four (4) Manufacturing Skills Standards Council (MSSC) Certified Production Technician (CPT) exams which certify participants in the areas of Safety, Quality Assurance, Production Processes, and Maintenance. No prior experience is necessary.

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

Meeting Industry request for entry level worker training based on national work standards. Was run as MFG-199

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):** Elective in manufacturing programs**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?

Yes**Have you consulted with the Dept Chair(s) of other program(s) regarding potential impact such as overlap, duplication, enrollment, impact, etc.?****Yes (A 'Yes' certifies you have talked with the chair and have received approval.)*****What was the result of the conversation with those department(s)?**

The Manufacturing Dept. originally offered this course in a very streamlined format. They no longer offer the course and have provided the core material to develop this one further.

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?

No

Will this course appear in the schedule?

No

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.

This course does not include assessable General Education outcomes.

Major Topic Outline:

Producing Products

1. Production Basics
2. Production Materials
3. Production Processes
4. Tool & Equipment Operation
5. Production Planning and Work Flow
6. Production Components
7. Controlling and Documenting Production
8. Packaging and Distributing Products

E-Learning Modules

Mechanical Principles

Mechanical Linkages

Machining Processes

Machine Tooling

Machine Operations

Equipment Procedures

Production Planning and Workflow

Production Control

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: 2015 Summer
