

Clackamas Community College

Online Course/Outline Submission System

Published Requests

MN-101 Certified Production Technician (CRT) - Quality Practices & Measurement

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**

First Name: Paul

Last Name: Wanner

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Course Prefix and Number: MN - 101**# 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) - Quality Practices & Measurement

Course Description:

This course is designed to provide students with entry-level understand of the Quality practices and processes 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) the four (4) Manufacturing Skills Standards Council (MSSC) Certified Production Technician (CPT) exams which certify participants in the areas of Quality Assurance. 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.

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?**Yes (A 'Yes' certifies you have talked with the librarian and have received approval.)***

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 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 and 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:

Quality Management

1. Continuous Improvement
2. Inspection & Auditing
3. Preventive and Corrective Actions

E-Learning Modules

- Blueprint Reading 1 (Multi-View Drawings)
- Blueprint Reading 2 (Assembly Drawings and Fasteners)
- Blueprint Reading 3 (Geometric Dimensioning and Tolerancing)
- Basic Measurement
- Precision Measurement Tools
- Dimensional Gauging
- Quality Systems
- Introduction to SPC (Statistical Process Control)
- Control Charts
- 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: 2015 Spring
