

Mechatronics: Production Technician

Holland code family: Doers

About the Program

The purpose of the Production Technician program is to recognize through certification individuals who demonstrate mastery of the core competencies of manufacturing production at the front-line (entry-level through front-line supervisor) through successful completion of the certification assessments. The goal of the program is to raise the level of performance of production workers both to assist the individuals in finding higher-wage jobs and to help employers ensure their workforce increases the company's productivity and competitiveness.

The Production Technician program consists of five individual certificate modules: Safety; Quality Practices & Measurement; Manufacturing Processes & Production; Maintenance Awareness and Green Production. Students must earn the first four certificates to receive the full Certified Production Technician certification. (Note: At this time Green is not required for full-CPT certification.)

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for Career Pathways Certificate are:

- Assist in design and rebuilding projects.
- Follow, develop, and troubleshoot manufacturing processes and procedures.
- Organize, interpret, and use technical information and documentation.
- Promote energy efficiency and industrial sustainability.
- Demonstrate the ability to adhere to personal and industry safety standards.
- Communicate effectively across a variety of audiences: technicians, engineers, management, and customers.
- Demonstrate life-long learning towards professional growth.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing/Engineering Technology Department chair's recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. Each College Now credit student must meet with the department chair to determine placement.

Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor and review the roadmap at www.roguecc.edu/Programs/CareerPathways.



¹ For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at www.roguecc.edu/CareerPathways/

Completion Requirements

Students are required to complete all courses in this program with a grade of "C" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MTH63	Applied Algebra I or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

Total Prerequisite Credits 0-19

Required Courses

Course No.	Course Title	Credits
MEC114	Safety for Industry	3
MEC116	Quality Practices and Measurements	3
MEC118	Manufacturing Processes and Production	3
MEC120	Maintenance Awareness	4

Optional Elective

Course No.	Course Title	Credits
MEC140	Green Production	2

TOTAL PROGRAM CREDITS 13-15

For more information contact the Manufacturing and Engineering Technology Department:
 Grants Pass or Medford..... 541-245-7902
 Toll free in Oregon..... 800-411-6508, Ext. 7902
 email..... manufacturing@roguecc.edu
 Web address..... www.roguecc.edu/manufacturing
 TTY..... Oregon Telecom Relay Service, 711

Career Pathways Certificate (CPC) — Mechatronics: Maintenance Technician (12-19 credits)

- Installation & Maintenance Helper ¹
- Machinist Helper ¹

Certificate of Completion (CC) — Mechatronics Specialist (47 credits)

- Mechatronics Technician ¹
- Assembly Technician ¹
- Engineering Technician ¹
- Manufacturing Technician ¹
- Calibration Technician ¹

Associate of Applied Science (AAS) — Mechatronics (90-108 credits)

- Mechanical Engineering Technician ¹
- Industrial Engineering Technician ¹
- Manufacturing Maintenance Technician ¹

This advising guide is for advising purposes only. Please see current college catalog for additional information on specific college policies and graduation requirements.

RCC is an open institution and does not discriminate. For RCC's non-discrimination policy and a full list of regulatory specific contact persons visit the following webpage: www.roguecc.edu/nondiscrimination.

