

Course Objectives/Course Outline
Spokane Community College

Course Title: Quality Control

Prefix and Course Number: MACH 223

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Accurately inspect parts using mechanical, digital, and optical inspection tools
- Create variable and range control charts used in Statistical Process Control
- Use proper documentation to record inspection data

Course Outline:

I. INSPECTION DOCUMENTATION

- A Identify The Correct Inspection Tool For Each Feature
- B. Efficient And Accurate Part Inspection
- C. Record Data On QA Sheet

II. STATISTICAL PROCESS CONTROL

- A Inherent vs. Chance Variation
- B Variation Troubleshooting
- C Data collection methods
- D Data charting methods

III. DIGITAL INSPECTION TOOLS

- A Optical Comparator
- B Coordinate Measuring Machine
- C FARO Arm