

CMM-Manager Operator Course

DESCRIPTION

The course will cover the fundamentals of operating CMM-Manager software.

LEARNING OBJECTIVES

- Learn how to start the CMM and CMM-Manager
- Understand CMM Manager graphical interface
- Learn how to assemble and qualify sensors
- Learn how to align and measure parts on a CMM
- Learn different ways to report measurements in CMM-Manager
- Learn how to create and execute a simple program with CMM-Manager

PREREQUISITES

Technical Print Reading and GD&T courses are recommended or ability to read and understand technical drawings.

INCLUDED IN THE TRAINING:

- 3 days (24 hours) of instructions and exercises
- Certificate of Attendance

COURSE OUTLINE

Day 1

- Introduction to coordinate metrology
- CMM startup and shut down procedures
- Maintenance of a CMM
- Identifying common issues with CMM
- Navigating through User Interface
- Building and Qualifying Tools
- Adding/Editing Qualification Artifact
- Adding/Editing Racks
- Different types of CMM Heads and sensors
- Hands-on exercises

Day 2

- Measuring features manually
- Constructions



- Alignments
 - ✓ Alignment theory, 6 degrees of freedom
 - ✓ Types of alignments
 - ✓ Datum order of precedence
- Reporting results
 - ✓ Using GD&T
- Hands-on exercises

Day 3

- Executing programs and creating simple ones in CMM Manager
 - ✓ Set-up instructions
 - ✓ Sensor move parameters
 - ✓ Collision avoidance
 - ✓ Measuring additional features within a pre-built program
- Questions, answers, and further hands-on exercises.

MEET THE INSTRUCTOR

Your training instructor, Rob Bushong, has 10 years of experience in dimensional inspection service, and 10 more in various realms of manufacturing including assembly, injection molding, and product launch processes. Rob not only has practical experience working with drawings and measured parts from a wide range of industries such as precision machining, injection molding, stamping, casting, but also has worked directly with the data after it has been collected. He's worked with rigid and non-rigid parts of all shapes and sizes, parts with standard geometry and free-form surfaces. Rob is an AUKOM certified metrologist and is fluent with GD&T concepts having taken multiple courses and working with drawings every day.

