

MACHINE TOOL TECHNOLOGY: COORDINATE METROLOGY (CERT)

CERTIFICATE OF ACHIEVEMENT

The certificate of achievement in coordinate metrology program prepares students to work with Coordinate Measuring Machines/Arms (CMMs). Those machines are either used during fabrication or machining to assist the machinist, after the fact when the first article is produced, or postproduction when the part is completed. Enrolled students are strongly positioned for employment in the machining industry throughout the course of the Program. Employment opportunities are available in manufacturing companies where Coordinate Measuring Machines are utilized. Typical job titles can include but not limited to Quality Control Inspector, Aerospace Engineering, Operations Technicians, Engineering Technicians.

Program Student Learning Outcomes

- Interpret blueprint information and translate it into actionable items.
- Identify and select appropriate measurement instruments and equipment to meet blueprint accuracy requirements.
- Utilize an AS9102 inspection report for a finished part.

Program Requirements

Code Number	Course Title	Units
Required Courses		
MTT 100	Machine Tool Introduction	2.0
MTT 130	Quality Practices and Measurement	2.0
MTT 131	Geometric Tolerance Inspection using Verisurf	3.0
MTT 132	Fixture and Tool Building using Verisurf	3.0
MTT 133	Applications of Metrology using Verisurf	3.0
MTT 140	Industrial and Machine Tool Safety	1.0
MTT 180	Robotics for Computer Numerically Controlled Machines	3.0
Total Units		17