

MACHINE TOOL TECHNOLOGY: MACHINIST OPTION (CERT)

CERTIFICATE OF ACHIEVEMENT

The Machinist Certificate of Achievement provides students with basic and advanced training in manual or conventional machining, computer numerical programming and operation. These training form the fundamental skills necessary for the average and expected workload in the machining industry. Enrolled students are strongly positioned for employment opportunities with manufacturing companies in the machining industry throughout the course of the Program. Typical job titles can include but not limited to Machine Operators or Machinist.

Program Student Learning Outcomes

- Apply industry standard safety practices and specific safety requirements for different machining operations.
- Calculate and adjust speed, feed and other parameters to properly produce the part.
- Calculate necessary tolerances to plan for his machine sequences.
- Inspect the produced part to ensure completion per blueprint requirement.
- Interpret blueprint information and translate into actionable items.
- Perform setup and operation of manual machine, such as band saw, lathe, mill, and drill press.

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 140	Industrial and Machine Tool Safety	1.0
MTT 151	Mastercam Introduction	3.5
MTT 152	Setup and Operation of CNC Milling Machines	2.5
MTT 157	Setup and Operation of CNC Lathes	2.5
MTT 191L	CNC Mill Machining Laboratory	1.0
MTT 194L	Manual Machining Lab	1.0
Total Units		18.5