

### **Accredited Training Program**



Join the Simi Institute Machine
Technology Program and receive
personalized training with no prior
experience required. With our
flexible open lab hours, you can
choose a schedule that best suits
your busy lifestyle. Students must be
able to speak, read, and write
English at a 9th grade level.

# DISCOVER A REWARDING

career in manufacturing
through our NIMS Accredited
Machine Technology program.
We are proud to offer training
on state-of-of-the-art HAAS
CNC machines and the latest
versions of MasterCAM.



Simi Institute
FOR CAREERS & EDUCATION

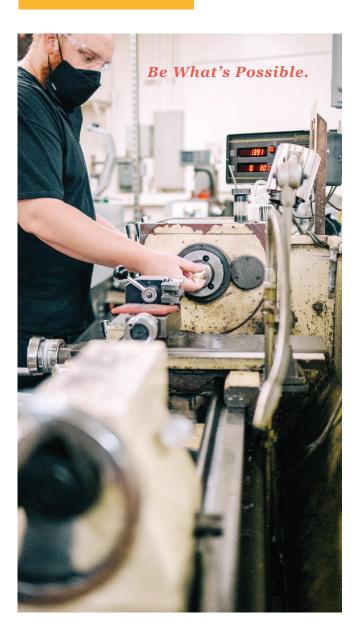


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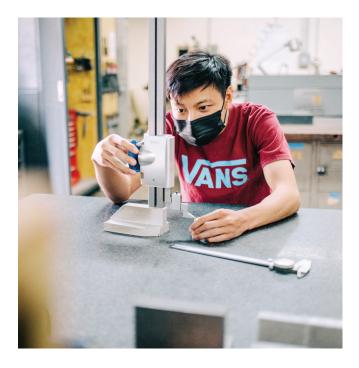
## MACHINE TECHNOLOGY



#### **BASIC MACHINE SHOP**

This class lays the foundation for many jobs in a machine shop and offers an introduction to the shop environment. Learn about work, work holding, how to calculate spindles speeds, using measuring tools and many other basic machinist operations.

### Prerequisites: None



#### **RECEIVE HANDS-ON TRAINING WITH:**

- · Lathes
- · Mills
- · Hand Tools
- · Safe Shop Practices
- Blueprint Reading
- · Shop Math

### CNC OPERATIONS & PROGRAMMING

This course features instruction on how to perform setups on the CNC mill and lathe. Learn how to edit G-code programming by hand, and write the programs necessary to make 12 projects by the end of the class.

Prerequisites: Basic Machine Shop or equivalent shop experience

#### **CLASS PROJECTS GIVE AN INTRODUCTION TO:**

- · Mill Setup
- · Lathe Setup
- Simple G-Codes
- · Canned Cycles
- · Sub-routines
- · Sub-programs
- · Advanced Shop Math

### ADVANCED CNC PROGRAMMING CONCEPTS

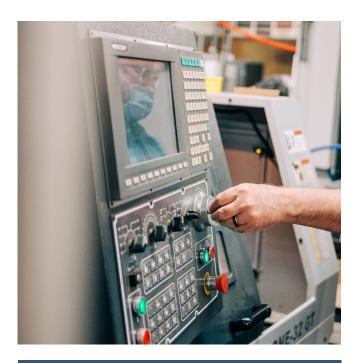
This advanced intensive course covers programming in multiple coordinate systems; trigonometry and offsetting geometry; thread milling; 4th axis milling; and live tooling in a lathe program and simulated y-axis.

Prerequisites: Prior CNC work experience or education

### INTRODUCTION TO CAD / CAM PROGRAMMING

Learn how to draw, import, and program parts in industry-leading software for CAD / CAM machining.

Prerequisites: CNC Operations and Programming course, and approval from instructor



#### **CERTIFICATES OFFERED**

- · Basic Machine Shop
- · Advanced Machine Shop
- · CNC Operations & Programming
- Introduction to MasterCAM
- · Introduction to GibbsCAM