Simi Institute
FOR CAREERS & EDUCATION

MACHINE TECHNOLOGY

Discover a rewarding career in manufacturing through our NIMS accredited Machine Technology program. We are proud to offer training on state-of-the-art HAAS CNC machines and the latest versions of MasterCAM. This open-entry program allows students to begin at anytime and train at their own pace. With a competency-based approach to learning, students can accelerate their path to earning certificates based on the number of hours they spend in class each week.

For more information, visit SimiInstitute.org or call 805.579.6200 x 1766.

COURSE FEE: $480 PER THREE MONTHS

Students must be 18 years old, and speak, read, and write English at 9th grade level. Certifications may take additional time beyond three months. Books and supply fees not included.

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, how to use measuring tools, and many other basic machinist operations.

Receive hands-on training with: lathes, mills, hand tools, safe shop practices, blueprint reading, and shop math.

Prerequisite: None

CNC OPERATIONS & PROGRAMMING

This course offers 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 class.

Get an introduction to: mill setup, lathe setup, simple G-Codes, canned cyles, sub-routines, sub-programs, and advanced shop math.

Prerequisites: Basic Machine Shop or equivalent shop experience

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.

Prerequisite: Prior CNC work experience or education

INTRODUCTION TO CAD/CAM PROGRAMMING

CAD/CAM stands for Computer Aided Design and Computer Aided Machining. Learn how to draw geometry and create solid models in the 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**
- **Advanced CNC Programming Concepts**

- **Introduction to MasterCAM**
- **Introduction to GibbsCAM**
- **GibbsCAM 3D**
- **MasterCAM 3D**

FINANCIAL AID AVAILABLE

Though the Gene Haas Foundation, we can assist with tuition costs exclusively for Machine Technology program students. Financial difficulty should not be a hindrance to pursuing a career in manufacturing.

To apply, please contact Oygar Lindskog:
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