

PRECISION MACHINING & MANUFACTURING



PROGRAM OVERVIEW

**1-YEAR
PROGRAM**

- Machining theory
- Mathematics
- Blueprint reading
- Computer-aided drafting
- Manual machining
- Computerized numerical control (CNC)
- 3-D modeling and prototyping
- Customer jobs

THERE ARE COUNTLESS EXAMPLES OF HOW OUR WORLD IS FILLED WITH MACHINED PARTS.

From the mold that makes up the plastic casing of your computer monitor, to the parts of the machines that wove the fabric of the clothing you wear, these products were ultimately designed by engineers and built by machinists. We depend upon this industry to maintain current industrial machinery as well as prototype new inventions.

Machinists use their knowledge of the properties of metals and other materials along with blueprint interpretation and equipment operation to create parts. They are responsible for the set up and operation of a variety of machines and tools to ensure the parts meet precise specifications. While many machinists work for manufacturing companies, some work for small independent shops.

Become familiar with the many facets of machining. With the ability to set up and control the machinery used to make precision parts, machinists are a critical part of the manufacturing process. As skilled craftspersons, they work with precision metal cutting and grinding machines such as lathes, milling machines, drilling machines, boring mills, and grinders.

Well-trained machinists with a strong background in both manual and CNC machining work in industries ranging from manufacturing and food processing to aerospace and power generation. As machine shops increase their use of computer-controlled equipment, training in the operation and programming of those machine tools is essential.

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