



**POSITION TITLE: CNC Machinist – Lathe & Mill (Sharon Center)**

**REPORTS TO: Foreman**

**POSITION SUMMARY:**

Sets up and operates numerical control machines or machining centers to perform various functions, such as cutting, drilling, milling, reaming, boring, and broaching of metallic and nonmetallic work pieces, utilizing knowledge of machine tool capabilities, machinability of materials, and shop math.

**JOB FUNCTIONS:**

Reads and interprets blueprints, planning sheets, sketches, and related technical data to determine tooling requirements, setup procedures, control settings, and machining methods and sequences.

Mounts, aligns, and secures tooling, attachments, and work piece on machine.

Selects and installs cutting tools in machine spindle.

Loads control media, such as tape, card or disk in machine controller or enters commands to retrieve preprogrammed machine instructions from data base.

Complete understanding of machine control codes, speeds and feeds, and the ability to make any edit required to optimize an operation.

Calculates and sets machine controls to position spindle in relationship to work piece and to regulate factors, such as cutting depth, speed, feed and coolant flow.

Starts machine and monitors displays and machine operation to detect malfunctions.

Stops machine to change cutting tools and setup according to required machining sequence or to measure parts for conformance to blueprint specifications, using precision measuring instruments.

Enters commands or manually adjusts machine controls to correct malfunctions or out-of-tolerance machining.

Operates machine manually to perform non-automated functions and when automated programming is faulty or machine malfunctions.

Performs minor machine maintenance.

Performs other tasks as assigned by supervisor.

## JOB QUALIFICATION REQUIREMENTS:

Training and Experience: The ability to setup CNC lathes and CNC mills without supervision. A complete understanding of inspection and measuring equipment. Must have a good understanding of machine code and the ability to make edits to programs. Must be able to perform some program optimization.

Physical Demands: The employee is required to:

- stand, walk, push, pull, reach overhead, and bend to the floor
- exert 50 to 100 pounds of force occasionally, and/or
- exert 25 to 50 pounds of force frequently, and/or
- exert up to 10 to 20 pounds of force constantly to move objects.

Visual Acuity: Near acuity and accommodation are required for reading machine dial gauges, blueprints, and precision measuring instruments used in the inspection of parts.

Hearing Ability: Ability to monitor machine sounds to identify and diagnose changes in order to take appropriate action.

Working Conditions: The employee is subject to:

- high noise levels from operating machines
- physical hazards from moving equipment and machine parts
- breathing fumes, dust and mist
- skin exposure to oils and cutting fluid

Personal Tools Required:

6" scale  
6" caliper  
0-3" OD micrometers  
0-24" ID micrometers  
0-6" depth micrometers  
edge finder  
telescoping gages  
small hole gages  
combination square  
set of drifts  
0-1" travel indicator with magnetic base  
test indicator  
radius gages  
crescent wrench  
allen wrenches – inch/metric  
tap handle

