

POSITION TITLE: CNC MACHINIST (609.360-010)
PROGRAMER / SETUP / TROUBLESHOOTER LEVEL 5

REPORTS TO: Manufacturing Manager/CNC Lead man

POSITION SUMMARY:

Programs new jobs, Sets up a variety of CNC machines utilizing knowledge of machines, tooling, materials and programs. Troubleshoots 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. Is able to do all editing, offsetting and troubleshooting with no assistance from supervisor.

ESSENTIAL JOB FUNCTIONS:

- Troubleshoots jobs in progress on machine when problems such as tool life, tolerance problems, finish problems and program problems occur.
- Programs new Jobs on CAD/CAM computer according to manufacturing planning sequence for CNC programming operation.
- Edits and adjusts program at machine and at CAD/CAM station. Saves adjusted program into CAD/CAM memory at end of run.
- Fills out Setup/Program sheet and maintains CNC file by part number.
- 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 instructions from data base.
- 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 automatic programming is faulty or machine malfunctions.
- Discusses control media errors with supervisor or programming personnel to resolve problems.
- Cleans machine, tooling, and parts.
- Performs machine maintenance.
- Communicates with co-workers and supervisor to receive instructions and coordinate activities.
- Inspects and measures parts to maintain statistical process control charts.

JOB QUALIFICATION REQUIREMENTS:

Training and Experience: Between 4 and 6 years of trade school, vocational education, work experience, or apprenticeship. Familiar with Mori Seiki, Fadal, Haas and Bridgeport machines and Fanuc, Yasnac and Haas machine controls. Also able to use Gibbs and Mastercam programming systems.

Physical Demands: The employee is required to:

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

Licenses Required:

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

The employee may be required to follow other job-related instructions and to perform other job-related duties as requested, subject to all applicable state and federal laws.

THIS POSITION DESCRIPTION WAS WRITTEN BY: Thomas M. Mundy

THIS POSITION DESCRIPTION WAS APPROVED ON Sept 19, 2007 BY Thomas M. Mundy