

CNC Mill Operator Job description

Employer Information

Organization Name: Pegasus Performance

About Our Organization: We are a leading manufacturer and supplier of complex machined parts and assemblies serving industries such as Food Processing, Automotive, Electronics, Industrial, Medical, Oil and Gas. Our facility utilizes some of the most advanced and accurate CNC milling and turning equipment available. Our quality inspection department hosts some of the most accurate test equipment to meet the most extreme demands of today's machine industry. With a calculated focus on lean manufacturing, we manufacture, assemble, finish, and package projects based on our customers' needs. From aluminum and steel to specialty alloys, we manage a diverse product base for integration into a variety of systems for various manufacturers. Our inclusive knowledge in product design and precision machining enables us to provide solutions in manufacturing that exceed expectations and brings value to our customers. The entire Pegasus family is driven to provide the best product possible for our customers. We understand that our customers systems are vital in maintaining their success. We provide one on one customer service and rapid turnarounds in order to ensure their progress. Our dedication to quality, customer satisfaction, and competitive pricing lets us stand apart from the competition.

Job Information 51-4011.00 Computer-Controlled Machine Tool Operators, Metal and Plastic

Job Title: CNC Mill Operator

Job Location: Galesburg, IL 61401

Job Description

Custom Job Purpose:

Operate computer-controlled mills to perform one or more machine functions on metal or plastic work pieces

Tasks

- Must be able to read basic G-Code Functions
- Find part zero
- Make adjustments to offsets, tool lengths, and programs
- Be able to use Holding Fixtures, Soft Jaws, Parallels and other Set Up fixtures and holding devices
- Must be able to identify types of machine tools and the proper use of each
- Required to fabricate fixtures and other work holding devices
- Check to ensure that workpieces are properly lubricated and cooled during machine operation.
- Set up and operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic workpieces.
- Insert control instructions into machine control units to start operation.
- Review program specifications or blueprints to determine and set machine operations and sequencing, finished workpiece dimensions, or numerical control sequences.
- Listen to machines during operation to detect sounds such as those made by dull cutting tools or excessive vibration and adjust machines to compensate for problems.
- Monitor machine operation and control panel displays and compare readings to specifications to detect malfunctions.
- Enter commands or load control media, such as tapes, cards, or disks, into machine controllers to retrieve programmed instructions.
- Remove and replace dull cutting tools.
- Modify cutting programs to account for problems encountered during operation and save modified programs.
- Calculate machine speed and feed ratios and the size and position of cuts.
- Adjust machine feed and speed, change cutting tools, or adjust machine controls when automatic programming is faulty or if machines malfunction.
- Lift workpieces to machines manually or with hoists or cranes.
- Stack or load finished items or place items on conveyor systems.

Control coolant systems.
Maintain machines and remove and replace broken or worn machine tools, using hand tools.
Confer with supervisors or programmers to resolve machine malfunctions or production errors or to obtain approval to continue production.
Implement changes to machine programs and enter new specifications, using computers.
Set up future jobs while machines are operating.
Clean machines, tooling, or parts, using solvents or solutions and rags.
Measure dimensions of finished workpieces to ensure conformance to specifications, using precision measuring instruments, templates, and fixtures.
Mount, install, align, and secure tools, attachments, fixtures, and workpieces on machines, using hand tools and precision measuring instruments.
Stop machines to remove finished workpieces or to change tooling, setup, or workpiece placement, according to required machining sequences.
Transfer commands from servers to computer numerical control (CNC) modules, using computer network links.

Work Context

Ability to learn quickly, Ability to successfully participate as a member of a team, Ability to work with minimum supervision, Flexible with hours and work days or swing Shifts, as we are a custom manufacturing plant with occasional weekend work, Wear all proper protective or safety equipment as required in work areas, Lift and carry heavy (up to 50 lbs) and /or awkward items, Standing for the full shift and have full range of motion (including but not limited to bending and lifting) required to perform the job functions in an non-climate controlled warehouse, Requires repetitive movement, Requires bending or twisting, Requires using hands to handle, control, or feel objects, tools or controls, Requires standing, Requires face-to-face discussions with individuals or teams, Requires making decisions that affect other people, the financial resources, and/or the image and reputation of the organization, Opportunity to make decisions without supervision, Mistakes are not easily correctable and have serious consequences, Requires being exact or highly accurate, Requires repeating the same physical activities or mental activities over and over, Requires meeting strict deadlines, Includes responsibility for the health and safety of others, Requires working indoors in environmentally controlled conditions

Work Activities

Handling and Moving Objects
Inspecting Equipment, Structures, or Material
Repairing and Maintaining Mechanical Equipment
Training and Teaching Others
Evaluating Information to Determine Compliance with Standards
Judging the Qualities of Things, Services, or People
Organizing, Planning, and Prioritizing Work
Establishing and Maintaining Interpersonal Relationships
Documenting/Recording Information
Performing General Physical Activities
Thinking Creatively
Communicating with Supervisors, Peers, or Subordinates
Updating and Using Relevant Knowledge
Identifying Objects, Actions, and Events
Drafting, Laying Out, and Specifying Technical Devices, Parts, and Equipment
Processing Information
Interpreting the Meaning of Information for Others
Monitor Processes, Materials, or Surroundings
Analyzing Data or Information
Making Decisions and Solving Problems
Controlling Machines and Processes
Operating Vehicles, Mechanized Devices, or Equipment
Getting Information

Interacting With Computers

Repairing and Maintaining Electronic Equipment

Estimating the Quantifiable Characteristics of Products, Events, or Information

operate metal or plastic fabricating equipment/machinery

set up production equipment or machinery

measure, weigh, or count products or materials

lay out machining, welding or precision assembly projects

read blueprints

understand technical operating, service or repair manuals

perform safety inspections in manufacturing or industrial setting

set up computer numerical control machines

set up and operate variety of machine tools

program computer numerical controlled machines

confer with engineering, technical or manufacturing personnel

move or fit heavy objects

use computers to enter, access or retrieve data

maintain or repair industrial or related equipment/machinery

load tapes, disks or paper into computers or peripherals

read production layouts

read technical drawings

examine products or work to verify conformance to specifications

load control media in machine controller

clean equipment or machinery

operate hoist, winch, or hydraulic boom

install equipment or attachments on machinery or related structures

use precision measuring tools or equipment

read specifications

understand machine setup instructions

determine specifications

determine tasks needed to complete machined products

load or unload material or workpiece into machinery

use hand or power tools

monitor production machinery/equipment operation to detect problems

load, unload, or stack containers, materials, or products

adjust production equipment/machinery setup

read work order, instructions, formulas, or processing charts

Qualifications

Education and Experience

Years of Experience: 2

Education: High School/G.E.D

Degree or Formal Training: CNC Mill Operation experience

Skills

Basic Skills

Active Learning

Understanding the implications of new information for both current and future problem-solving and decision-making.

Active Listening

Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Critical Thinking

Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.

Learning Strategies

Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.

Mathematics

Using mathematics to solve problems.

Monitoring

Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.

Reading Comprehension

Understanding written sentences and paragraphs in work related documents.

Speaking

Talking to others to convey information effectively.

Writing

Communicating effectively in writing as appropriate for the needs of the audience.

Social Skills

Coordination

Adjusting actions in relation to others' actions.

Instructing

Teaching others how to do something.

Social Perceptiveness

Being aware of others' reactions and understanding why they react as they do.

Complex Problem Solving Skills

Complex Problem Solving

Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Technical Skills

Equipment Maintenance

Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.

Equipment Selection

Determining the kind of tools and equipment needed to do a job.

Operation Monitoring

Watching gauges, dials, or other indicators to make sure a machine is working properly.

Operation and Control

Controlling operations of equipment or systems.

Operations Analysis

Analyzing needs and product requirements to create a design.

Programming

Writing computer programs for various purposes.

Quality Control Analysis

Conducting tests and inspections of products, services, or processes to evaluate quality or performance.

Repairing
Repairing machines or systems using the needed tools.

Troubleshooting
Determining causes of operating errors and deciding what to do about it.

Systems Skills

Judgment and Decision Making
Considering the relative costs and benefits of potential actions to choose the most appropriate one.

Systems Analysis
Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.

Systems Evaluation
Identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.

Resource Management Skills

Time Management
Managing one's own time and the time of others.

Knowledge

Required:

English Language
Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.

Mechanical
Knowledge of machines and tools, including their designs, uses, repair, and maintenance.

Preferred:

Production and Processing
Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.

Tools

Boring tools
Borers
Boring bars

Gauges or inspection fixtures
Bore gauges
Dial indicators
Pin gauges
0-1 drop indicators
Automatic measuring equipment

Milling cutters
Anilam mills
Bore mills
Computer numerical controlled CNC milling machines
Computerized numerical control CNC routers
2/3 axis computer numerically controlled CNC milling machines

Milling machines

Milling machines

Vertical milling machines

Manual mills

Specific Tools & Technology:

Knowledge of manual lathes and their safe accurate usage

Measuring Tools knowledge required - Calipers (Dial, Digital, and occasionally Vernier), Micrometers, Height gauges, Dial indicators, Bore Gauges and CMM

Holding Fixtures, Soft Jaws

Identify types of machine tools and the proper use of each

Fabricate fixtures and other work holding devices