

CNC Lathe 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 Lathe Operator

Job Location: Galesburg, IL 61401

Job Description

Custom Job Purpose:

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

Tasks

- Read basic G-Code Functions

- Find part zero

- Make adjustments to offsets, tool lengths, and programs

- Be able to use Holding Fixtures and Soft Jaws

- Must be able to identify types of machine tools and the proper use of each

- 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.

- 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.

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 a 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 Lathe 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
Boring bars
Borers

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

Lathes
Haas lathes
Computerized numerical control CNC lathes
5 axis lathes
8 axis lathes
Computer numerical control CNC vertical lathes

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