



Fabrication Operator

Reports To: Fab Supervisor	Division: Sedalia
FLSA Classification: Non-Exempt	Department: Fabrication
Date: March 21, 2024	Approved By: Human Resources

Job Description: Fabrication Operator

Advanced skills and knowledge in the set-up, adjustment and operating standard and special types of fabricating machines such as, but not limited to, brake press, laser, press and turret presses to perform repetitive operations such as cutting, shaping, bending metal plates, sheets and structural shapes within fractional tolerances to build standard and special food service equipment as specified by shop drawing. Use safety devices provided and operate machines using proper safety procedures. Keep machines and work areas clean and free of grease and oil. Conduct daily preventative maintenance operations as outlined on the 6S zone card. Notify the lead person or supervisor of machine needing repair. Maintain positive work atmosphere by behaving and communicating in a manner that gets along with coworkers, supervisors, clients, customers.

Functional Area:

The following list of essential duties is not exhaustive. An employee may be required to perform additional tasks not listed below. If asked, you will be given the proper training or assistance necessary to perform the expected duties.

Brake: *Select, position and clamp die into machine using rule, square, shims, template, micrometer, calipers, built-in gauges, and hand tools. Program, set-up and run numerical control brake. Program numerical control gauges on press brakes. Determine the lay of the grain on various metals, gauge of material and type of material. Adjust set pressure and depth of ram stroke, adjustment rolls and speed of machine. Locate and mark bending or cutting lines and reference points onto work piece, using rule, compass, straightedge, or by tracing from templates. Obtain and transfer stock to machine manually or by pallet jack or hand jack. Position work piece manually against stops or align layout marks with die. Reposition work piece and may change dies for multiple or successive passes. Perform first piece verification by inspecting part dimension to print using tape measure, caliper, protractor, fixture, or part pattern, making necessary adjustments, as required. Stack parts and material in a safe manner. Be able to form hems, offsets, and complicated parts while meeting daily time goals.*

Lissmac: *Obtain and transfer stock to machine manually or by pallet jack or hand jack. Determine the lay of the grain on various metals, gauge of material and type of material. Position work piece manually onto machine. Reposition work piece for multiple or successive passes. Perform first piece verification by inspecting. Remove burrs, sharp edges, rust, or scale using a variety of deburring tools to the standard lined out on the drawing. Handle part from skid/table to machine and stack parts on out skid/table after machining.*

Laser: *Select, position and clamp sheets into machine using hands, built-in gauges, and hand tools. Determine the lay of the grain on various metals, gauge of material and type of material. Position laser beds. Program, set-up and run numerical control manual and autofocus laser. Adjust set air pressure, speed, and depth of cut.*

Perform first and last piece verification by inspecting part dimension to print using tape measure, caliper, protractor, fixture, pin gauges, or part pattern, making necessary adjustments, as required. Perform all special instructions as lined out on traveler or drawing. Remove burrs, sharp edges, rust, or scale using a variety of deburring tools. Keep laser cutting as much as possible while checking parts. Handle part from skid to machine and stack parts on out skid/table after machining.

Press: Understand numerical control turret press programming. Determine the lay of the grain on various metals, gauge of material and type of material. Position and clamp stop, guides and turn tables. Make adjustments to set pressure and depth of ram stroke, adjustment rolls and speed of machined. Locate and mark bending or cutting lines and reference points onto work piece, using rule, compass, straightedge, or by tracing from templates. Obtain and transfer stock to machine manually or by pallet jack or hand jack. Position work piece manually against stops or align layout marks with die or cutting blade. Reposition work piece and may change dies for multiple or successive passes. Perform first piece verification by inspection part dimension to print using tape measure, caliper, protractor, fixture, or part pattern, making necessary adjustments, as required. Handle part from skid/table to machine and stack parts on out skid/table after machining.

	Machine Operator 1	Machine Operator 2	Machine Operator 3	Machine Operator 4
Maintain positive work atmosphere by behaving and communication in a manner that gets along with coworkers, supervisors, clients, and customers	X	X	X	X
Must maintain accuracy, proficiency, speed, and professionalism	X	X	X	X
Must be able to meet or exceed daily time goals. Work continuously regardless of current time	X	X	X	X
Follows General Safety Rules	X	X	X	X
Must 6S department workstations	X	X	X	X
Actively support problem solving events	X	X	X	X
Search for and suggest ways to reduce or eliminate waste	X	X	X	X
Update and/or engage in the KPI board conversations	X	X	X	X
Follow standard operating procedures and quality plan including performing first, last, middle and every 50 parts check.	X	X	X	X
Use a variety of hand tools	X	X	X	X
Use a variety of power tools	X	X	X	X
Use a variety of power tools	X	X	X	X
Inspect metal and/or parts for defects	X	X	X	X
Must have machines running within 15 minutes of start of day and stop running only for brakes, meetings, or 6S. No idling.	X	X	X	X

Reason and calculate dimensional solutions		X	X	X
Keeps current with and effectively applies new work methods, skills, and technologies to complete		X	X	X
Read and interpret work orders/unit drawings		X	X	X
Have a goal of no returned parts or excessive rework		X	X	X
Master the use of one machine / or both routers		X	X	X
Master the use of several machines OR able to write programs for laser weld			X	X
Pass applicable written, oral, and performance exams			X	X
Understanding of the training process and ability to transfer training knowledge to other team members effectively			X	X
Uses best practice and applies new and innovative methods to complete work efficiently and effectively			X	X
Be able to train on Trumpf, LVD, Cincinnati, and 138-ton Amada Promecam				X
Demonstrate knowledge as the subject matter expert on all brakes, display a deep understanding of all aspects of operation				X
Responsible for management and coordination of workflow through the workflow through the big brake area				X

Position and title are determined by departmental needs and requirements. Ability to do some or all duties listed does not automatically indicate or qualify as an advanced position.*

Essential Knowledge, Skills, and Abilities

	Machine Operator 1	Machine Operator 2	Machine Operator 3	Machine Operator 4
General Safety Rules	X	X	X	X
Required PPE Listing	X	X	X	X
MSDS (SDS) Library	X	X	X	X
Standard Work for workstation	X	X	X	X
Understand use of calipers, protractor, gauge wheel, and tape measure	X	X	X	X
Identify metal gauge and type, vinyl/no vinyl, material grain		X	X	X
Use of go/no go gauges and fixtures		X	X	X
Basic computer knowledge		X	X	X
Fork Truck certification for fork truck drivers		X	X	X
Understanding of complicated drawings		X	X	X
Able to manage immediate work area with little to no supervision			X	X
Cross train on other machines and be flexible to cover daily needs			X	X

Education / Experience

	Degree (min)	Experience (min)
Machine Operator-1	N/A	Must have understanding of tape measure, calipers, and protractor.
Machine Operator-2	N/A	Must be able to read and interpret prints. Setup tooling in machine and write or modify program for part.
Machine Operator-3	Certification	6 Months in Fabrication/pass applicable written test with 75% or higher score
Machine Operator-4	Certification	6 Months in Fabrication and must be able to operate and train others on LVD, Trumpf, 125-ton Promecam, and Cincinnati brakes, pass written exam at 75% or higher score

Required Abilities:

1. Mathematical Reasoning — Use of elementary geometry, algebra, and trigonometric principles. Interpretation of data and measuring devices requiring advanced skills and knowledge. The ability to choose the right mathematical methods or formulas to solve a problem.
2. Near Vision — The ability to see details at close range (within a few feet of the observer).
3. Deductive Reasoning — The ability to apply general rules to specific problems to produce answers that make sense.
4. Oral Comprehension — The ability to listen to and understand information and ideas presented through spoken words and sentences.
5. Visualization — The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.
6. Written Expression — The ability to communicate information and ideas in writing so others will understand.
7. Information Ordering — The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).
8. Oral Expression — The ability to communicate information and ideas in speaking so others will understand.
9. Originality — The ability to come up with unusual or clever ideas about a given topic or situation, or to develop creative ways to solve a problem.
10. Speech Clarity — The ability to speak clearly so others can understand you.

Physical Job Requirements:

1. Speaking to employees and customers.
2. Listening to employees and customers.
3. Sitting for extended periods of time.
4. Walking for extended periods of time.
5. Standing for continuous periods of time without being able to leave the work area.
6. Able to lift, push, or pull up to 40 pounds by yourself and team lift 100 pounds.
7. Carrying objects (in arms or on shoulders).
8. Grasping (applying pressure to objects).
9. Reaching (extending hands and arms in any direction).
10. Stooping and crouching (bending downward and forward).
11. Feeling (perceiving attributes of objects such as size, shape, temperature, or texture).

Mental and Visual Job Requirements:

1. Clarity of vision at 20 inches or less.
2. Clarity of vision at 20 feet or more.
3. Ability to bring objects into sharp focus.
4. Ability to identify and distinguish colors preferred.
5. Ability to judge distance and space relationships.
6. Ability to learn and comprehend instructions and orientation to the job.
7. Ability to concentrate attention on task at hand for extended periods of time.

Workplace Environmental Conditions:

1. Typical manufacturing environment.
2. Occasionally subject to sufficient noise to cause the worker to shout in order to be heard above the ambient noise level.
3. Occasional exposure to oscillating movements (vibrations) of the extremities or whole body.
4. Occasional exposure to hazardous conditions: proximity to moving mechanical parts, electrical current, or exposure to chemicals.

Applicable Job Title	<input type="checkbox"/> Machine Operator <input type="checkbox"/> 1	Machine Operator 2	Machine Operator 3	<input type="checkbox"/> Machine Operator <input type="checkbox"/> 4
Employee Signature and Date:				
Employee Printed Name:				
Supervisor Signature and Date:				