

Steel Reinforced Concrete Jobs / Careers in the SHOP

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Career/Job	Position Description	Education/Training/Skills
Inventory	Inventory personnel works with the purchasing manager and/or the production manager to prepare material orders, rebar, wire mesh, couplers, placing accessories. They also communicate with sales personnel on inventory items as well as material lead times.	<u>Education:</u> high school/GED <u>Training:</u> computer knowledge, business software <u>Skills:</u> communications, math, organization
Shipping	Shipping personnel coordinates deliveries to jobsites, keeps project managers informed of scheduling, schedules drivers, arranges back hauls or pickup at mill locations. They may also dispatch drivers.	<u>Education:</u> online certification (ASCM, SNHU) <u>Training:</u> logistics credentialing <u>Skills:</u> communication, scheduling, attention to details
Fork Truck Operator	Fork truck operators are typically responsible for general shop organization, material loading and unloading when overhead cranes are not used, assists in moving material as required, and adding last minute releases to trucks that are already loaded.	<u>Education:</u> high school/GED <u>Training:</u> OSHA 10/30 training, PIT certification, pre-flight inspection, on the job training, safety course, annual reviews <u>Skills:</u> eye/hand coordination
Crane Operator	Crane operators coordinate loading and clearing shop machinery including shear machines, bend tables, radius machines, and automated continuous feed machines. They are generally responsible for unloading material into inventory racks and loading all fabricated material onto trucks. <i>(Crane operation and safety certification training is generally required for this position.)</i>	<u>Education:</u> high school/GED <u>Training:</u> OSHA 10/30 training, PIT certification, rigging, mentoring/on the job training, safety course, annual reviews <u>Skills:</u> eye/hand coordination

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Dispatcher	A Dispatcher is a professional who ensures that everything runs smoothly by coordinating deliverables with customers and suppliers, providing precise logistics for drivers to follow along on their routes, and coordinating delivery times. Dispatchers are the point of contact for trucking and rail who provide all the information needed to make deliveries.	<u>Education:</u> high school/GED, college degree in supply chain management or related field <u>Training:</u> additional classes/training may be provided by employer <u>Skills:</u> communications, project management
Maintenance	Maintenance workers, also known as repair workers, diagnose, repair, and maintain mechanical equipment, buildings/facilities, and machines. They troubleshoot issues to determine necessary repairs and plans repair work using building blueprints or equipment manuals. They perform general repairs that do not require a specialized technician.	<u>Education:</u> high school/GED, practical work experience (knowledge of equipment used in the industry) <u>Training:</u> good maintenance technicians have knowledge of hydraulic, pneumatic, mechanical, and electrical systems. Additional education or certifications include certificate in Maintenance Management, OSHA 10/30 training, certified electrician, certified maintenance and reliability technician <u>Skills:</u> troubleshooting, organization, ability to work under pressure
Tech/Information Technologies (IT)	An IT Technician, or IT Support Technician, is responsible for maintaining computer systems and other technologies in a business setting. Their duties include working with other IT Technicians to install hardware and troubleshoot computer issues, responding to IT questions from company employees, and updating malware protection devices to prevent viruses or computer/network vulnerabilities.	<u>Education:</u> high school/GED, college degree in computer science or related field <u>Training:</u> online IT courses <u>Skills:</u> system administration, networking, technical support, database administration, and IT security

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Machine Development: Steel Mill	Personnel in this field is responsible for the maintenance and upgrading of steel mill equipment and machinery. Mill machinery is constantly being updated to more efficiently expedite the process of producing all 11 reinforcing steel (rebar) sizes to meet industry needs and fabricator expectations. Environmental and recycling/"green" concerns are also of high importance.	<u>Education:</u> high school/GED <u>Training:</u> on the job training/mentoring, formal training may exist <u>Skills:</u> mechanical
Machine Development: Fabricator	Personnel in this field will be maintaining and updating reinforcing steel (rebar) fabrication machinery. After decades of being stagnant, rebar fabrication machinery is now considered to be the state of the art for manual and automated shearing and bending of all rebar sizes.	<u>Education:</u> high school/GED <u>Training:</u> on the job training/mentoring, equipment manufacturing processes <u>Skills:</u> mechanical
Inspector: Steel Mill	Inspectors for steel mills are responsible for ensuring the steel billets meet ASTM specifications, ensure that heat numbers match the mill certificates sent with orders, and verify the nominal reinforcing steel (rebar) sizes are within specification.	<u>Education:</u> high school/GED <u>Training:</u> on the job training/mentoring, formal training by employer may exist <u>Skills:</u> technical, mechanical
Inspector: Fabricator	Inspectors in the fabrication shop may be responsible for quality control of rebar lengths, bends, and quantities, as well as adherence to safety programs within the shop and yard. They may also be required to operate fabrication machinery, crane/lifting equipment, and perform basic machine maintenance.	<u>Education:</u> high school/GED <u>Training:</u> on the job training/mentoring <u>Skills:</u> technical, mechanical

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Fabricator	Steel reinforcing bar (rebar) Fabricators work in the fabrication shop where the bar lists produced by detailers are cut and bent into the shapes required for a project. The fabricated rebar is then loaded onto trucks and shipped to the jobsite for the rebar installers to place before a scheduled concrete pour.	<u>Education:</u> high school/GED <u>Training:</u> on the job training/mentoring <u>Skills:</u> attention to detail, physical
Scheduler	A Scheduler in the fabrication shop receives bar lists from the detailer and is responsible for having each project's rebar fabricated and loaded onto trucks in a cost-efficient manner. They are also responsible for arranging the logistics necessary to ensure that each jobsite receives its order on time.	<u>Education:</u> high school/GED <u>Training:</u> on the job training, detailer training or formal experience in project management/construction management may be beneficial <u>Skills:</u> organization, computer software
Security	Security positions can be assigned in a few locations: steel mill security, fabrication facility or at the jobsite. Security personnel are responsible for safe and secure facilities, deterring theft and vandalism. Cyber security positions can include data security, corporate websites, servers, and support of local and remote users. They typically provide updates, security patches, and monitor network activity for cyber threats/vandalism.	<u>Education:</u> college/trade school, private security education <u>Training:</u> knowledge of local laws, computer science, self-defense <u>Skills:</u> attention to detail, assertive, software development/applications

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Epoxy Coater	Epoxy coater personnel duties include meeting the technical, design, and standards required by the jurisdictions for whom the epoxy-coated reinforcing steel bar (rebar) is being produced. They handle reinforcing bar regularly in a manufacturing role as the bar must be brought to the coating line, prepared for blasting, and coated. There is a higher level of technical expertise involved in the coater's job due to the specifications and requirements of the coating process.	<p><u>Education:</u> high school/GED</p> <p><u>Training:</u> on the job training/mentoring, safety training, quality control; all typically supplied by employer</p> <p><u>Skills:</u> attention to detail, organization</p>
Metallurgist	The Metallurgist role supports all areas of the steel mill to improve product quality and performance. This often includes creating and implementing quality control procedures, aiding in development of processes to produce required grades of steel, writing technical reports for internal and external customers, and conducting mechanical and metallographic testing for analysis and inspections. This position requires a Bachelor's degree in metallurgy, metallurgical engineering, material science, or chemical engineering.	<p><u>Education:</u> degree in Metallurgical Engineering, Materials Science, or Chemical Engineering</p> <p><u>Training:</u> steel or industrial experience typically required</p> <p><u>Skills:</u> chemistry, product testing</p>
Rolling Mill	Personnel in the rolling mill learn to safely operate, troubleshoot, repair, and maintain the operations and machinery that heat semi-finished billets and transform them (through a series of "rolling stands") into finished steel long products including rebar, angles, channels, flats and more. Working in the rolling mill includes the use of a variety of tools and systems.	<p><u>Education:</u> high school/GED for most positions</p> <p><u>Training and Skills:</u> varies for level of position; see below</p> <ul style="list-style-type: none"> -Trainee: basic computer skills, ability to work in non-climate controlled environment -Production Operator: basic computer skills -Shift Supervisor: steel mill experience, knowledge of SAP/QMOS systems -General Supervisor: steel mill experience, management skills, experience in manufacturing environment, OSHA knowledge

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Melt Shop	The steel mill melt shop provides the opportunity to safely learn various roles in a fast-paced, highly automated environment. A melt shop is typically centered around a state-of-the-art electric arc furnace (EAF) that melts scrap metal inside a ladle into molten steel. It is then moved to a caster where it is formed into a semi-finished product (billets). This position requires training in start up, shut down, and emergency procedures as well as all aspects of making a "heat" of steel.	<p><u>Education:</u> high school/GED for most positions <u>Training and Skills:</u> varies for level of position; see below</p> <ul style="list-style-type: none"> -Trainee: ability to work in non-climate controlled environment -Shift Supervisor: strong computer skills; knowledge of melt shop and/or casting operations -General Foreman: two-year technical degree; industrial maintenance experience
Epoxy Coating Quality Supervisor	The Coating Line Operator position is responsible for the technical aspects of managing the coating line. This requires a high level of technical awareness and understanding of the certification process of epoxy coated steel reinforcing bar.	<p><u>Education:</u> high school/GED <u>Training:</u> on the job training, epoxy coating certification <u>Skills:</u> attention to detail, multi-tasking</p>
Galvanizing Operator	The Galvanizing Operator is responsible for verifying a galvanizing reinforcing steel line meets the technical, design, and galvanizing standards to satisfy the jurisdiction's requirements. They handle reinforcing bar regularly in a manufacturing role as the bar must be brought to the galvanizer's shop, prepared for blasting and coated. There is a higher level of technical expertise involved in the galvanizer's job due to the specifications and requirements of the galvanizing process.	<p><u>Education:</u> high school/GED <u>Training:</u> on the job training, possible internal galvanizing certification <u>Skills:</u> attention to detail, multi-tasking</p>
Epoxy Powder Manufacturer/Operator	Personnel in this position must have a technical understanding of the powder used in the epoxy coating process. They must also operate epoxy coating machinery with a high level mechanical and technical skill.	<p><u>Education:</u> high school/GED <u>Training:</u> on the job training and operation <u>Skills:</u> attention to detail, multi-tasking</p>

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Manufacturer/Assembler: Equipment	Mechanical skills are necessary for the Equipment Manufacturer/Assembler position as they are required to follow a specific set of plans and designs in order to assemble the equipment used in the reinforcing industry.	<u>Education:</u> high school/GED <u>Training:</u> on the job training and operation <u>Skills:</u> attention to detail, multi-tasking
Manufacturer/Assembler: Formwork	The Formwork Manufacturer/Assembler position requires an understanding of the specific needs and types of formwork required for the different projects within the reinforcing industry.	<u>Education:</u> high school/GED <u>Training:</u> on the job training and operation <u>Skills:</u> attention to detail, multi-tasking
Warehouse Coordinator	The Warehouse Coordinator role manages multiple inventory levels of various construction products, including steel reinforcing bars (rebar). This position operates in a fast-paced environment and establishes a solid customer base by meeting their supply requirements.	<u>Education:</u> high school/GED <u>Training:</u> computer knowledge, business software <u>Skills:</u> organizational, communications, math