Shultz Steel Company Job Description

Job Title: Manufacturing Engineer- Level I

Job Code: 460510

Department: Manufacturing Engineering **Reports To:** Manufacturing Systems Manager

FLSA Status: Non- Exempt
Prepared By: Georgia McLean
Prepared Date: 09/15/2009
Approved By: Rob Culbertson
Approved Date: 09/15/2009

SUMMARY

Develops process plans and designs for the manufacture of our parts and tools under direct supervision.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Other duties may be assigned. In performing functions, duties or tasks, employees are required to know and follow safe work practices, and to be aware of Company policies and procedures related to job safety, including safety rules and regulations. All functions, duties or tasks are to be carried out in an honest, ethical and professional manner, and to be performed in conformance with applicable Company policies and procedures. In the event of uncertainty or lack of knowledge of Company policies and procedures, employees are required to request clarification or explanations from superiors or authorized company representatives.

Transfers customer data sets and generates drawings for estimates using CAD tools and others available software.

Creates forging drawings and 3D models from customer drawings and models using CAD tools.

Creates drawings and 3D models necessary for the manufacture of the dies and forging tools using the CAD tools and instruction from the supervising engineer.

Performs area, volume and weight calculations using CAD tools.

Sets up and runs simulations to test forging process concepts using simulation software.

Creates detailed operation sequence and Standard Work documentation necessary for the production process per the process information provided by the supervising engineer.

Must have a general knowledge of the concepts and standards used in part and process design with attention to potential lack of fill, defect information, mismatch and die failure.

Must have a general knowledge of the techniques, hardware and software used to inspect forgings and dies. Performs simple inspection procedures to dimensionally check dies and forgings.

SUPERVISORY RESPONSIBILITIES

None

QUALIFICATIONS

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

EDUCATION and/or EXPERIENCE

Bachelors Degree (BS/BA) from a four year college or university; or a minimum for years of related experience and/ or training; or an equivalent combination of education and experience. Elementary CAD education or experience.

LANGUAGE SKILLS

Ability to read, analyze and interpret general business periodicals, professional journals, technical procedures, blueprints and specifications. Ability to effectively present information and respond to questions from supervisors, managers, and shop personnel.

MATHEMATICAL SKILLS

Ability to work with mathematical concepts such as probability, statistical inference, geometry, and trigonometry. Ability to apply the concepts of fractions, percentages, ratios and proportions to practical situations.

REASONING ABILITY

Ability to solve problems and deal with a variety of variables in situations where only limited standardization exists. Ability to interpret a variety of instructions furnished in written, oral, diagram or schedule form.

OTHER QUALIFICATIONS

A wide range of engineering knowledge with an emphasis on mechanics, materials, machining methods, mathematics and physics.

PHYSICAL DEMANDS The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to talk or hear. The employee frequently is required to stand and reach with hands and arms. The employee is occasionally required to walk; sit; climb or balance; and stoop, kneel, crouch, or crawl. The employee must occasionally lift and/or move up to 25 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and ability to adjust focus.

WORK ENVIRONMENT The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of the job, the employee is frequently exposed to vibration. The employee occasionally works near moving mechanical parts and is frequently exposed to airborne particles. The noise level is the work environment is moderate.