Manufacturing Engineer
JOB DESCRIPTION

Job Title:

Manufacturing Engineer

Nature of Work:

The Ascentron Industrial/Manufacturing Engineer plans, directs and coordinates manufacturing processes in the plant; responds to manufacturing issues and concerns to insure products are produced to specifications and according to manufacturing schedules while insuring efficient use of resources. Manufacturing Engineer reports to Engineering Manager.

Duties and Task Statements:

- Develops, evaluates and improves manufacturing methods.
- Provides timely, accurate and competitive quotes of potential new business.
- Determines the processes, identifies the materials and supplies to be used, and designs and builds appropriate fixtures necessary for efficient and cost effective manufacturing.
- Creates new part numbers based on customer specifications and established standards and adds new parts into the part master file of the MRP system.
- Establishes bills of material, manufacturing routings, machine burdens, and new work centers.
- Creates assembly instructions for new products to be manufactured.
- Establishes customer and internal engineering change orders (ECOs), processes and incorporates the changes, and insures changes become effective.
- Establishes the processes and routings to handle discrepant material, returned products (RMAs), and internal jobs to be reworked.
- Studies and records time, motion, methods and speed involved in performance of production and other worker operations to establish standard production rates and to improve efficiencies. Institutes changes in the production processes and/or recommends adjustments to product pricing.
- Performs engineering activities in compliance with established company and manufacturing standards, engineering principles, customer requirements, and related specifications.
- Confers with customers and engineering staff concerning product design and tooling to insure efficient production methods.
- Confers with vendors to determine part specifications and recommends the purchase of equipment and materials used in manufacturing and production.
- Estimate production times, staffing requirements, and related costs for management decisions.
- Confers with management, engineering, and other staff regarding manufacturing capabilities, production schedules, and other considerations to facilitate production processes. Other duties may be assigned.

Equipment Used:

Drill press	NC Mill	Machine shop tools
Static Control Smock	Static Control Strap	Personal Computer
Telephone	Personnal Protective Equipment	

Materials Used:

Materials that may be required include ESD safe smock and static grounding strap.

Formal Interaction with Others:

Interacts with all factory employees, appropriate management and operations personnel, and other department personnel. Communicates with the Engineering Manager to obtain instruction, assistance, and communicate concerns.

Work Environment:

The work setting consists of a production environment with adequate lighting, comfortable temperatures, and a moderate noise level. The work schedule consists of a five-day, 40-hour work week with overtime dependent on department needs.

Minimum Qualifications:

Qualifications To perform this job successfully, the 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.

Perform related engineering and manufacturing tasks to meet the company objectives. Meet or exceed established departmental priorities of manufacturing and customer service goals. Learn the process and procedures used at the company.

No certificates, licenses or registrations are required to perform the essential duties of the job.

Education

Bachelor's degree (BA/BS) or equivalent; or four to six years related experience and/or training; or equivalent combination of education and experience.

Knowledge, Skills and Abilities

Language Skills

Must have the ability to:

- Read, analyze, and interpret common industrial, manufacturing and technical procedures, professional journals, schematics, diagrams, drawings, and blueprints.
- Write reports, business correspondence, assembly instructions and procedural manuals.
- Respond to common inquiries or complaints from customers, regulatory agencies, or other members of the manufacturing community.
- Speak effectively before groups of customers or company employees.

Mathematical Skills

Must be the ability to:

- Apply advanced mathematical concepts such as exponents, logarithms, quadratic equations and permutations.
- Apply mathematical operations to theoretical and practical manufacturing and industrial situations.

Computer Skills

- Ability to use a personal computer, email and the internet, and have a working knowledge of the following applications: word processor, spreadsheet, database, computer-assisted design or draw program, and publishing program.

Reasoning Ability

Must have the ability to:

- Define manufacturing problems, collect data, establish facts, and draw valid conclusions.
- Interpret an extensive variety of technical instructions in mathematical or diagram form that include several abstract and concrete variables.