



Manufacturing Engineering Technician II

Shifts Available: 1st/2nd/3rd

SUMMARY

The Manufacturing Engineering Technician II (MET2) performs all aspects of automated manufacturing equipment repair, troubleshooting, calibration, and preventative maintenance procedures on equipment. This position also assists engineers in developing and refining manufacturing processes. The MET2 must be able to work effectively under limited supervision. This position reports to Area Group Supervisor.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Other duties may be assigned.

- Uses the PLC to diagnosis and troubleshoot electronic devices
- Performs the following electrical tasks:
 - Identify/test/repair circuits up to 480 volts
 - Wiring
 - Troubleshoot integrated circuits to board level
 - Interpret schematics
 - Understand common industrial electrical components
- Diagnose and troubleshoot vacuum systems and sensors
- Troubleshoot heating systems
- Injection molding experience
- Possesses a working knowledge of pneumatics and hydraulics including the theory of regulation and flow, valve configurations and troubleshooting, and purge systems
- Possesses mechanical knowledge including fastener applications; the ability to read and modify mechanical drawings; is able to use power and hand mechanical tools; understands basic metallurgy; understands how to replace motors, diagnosis of motor drive systems and basic fabrication.

EDUCATION and/or EXPERIENCE

Minimum educational requirements includes a technical degree or certificate. Minimum experience includes 3 years manufacturing experience preferably in a high-volume, applicable industry. Working knowledge of PLC's inputs and outputs, pneumatic adjustments, common engineering testing procedures (DOE's, PFMEA's, etc.), engineering documentation and reports.

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 accommodation may be made to enable individuals with disabilities to perform essential functions.

The individual must be able to work effectively and professionally with all levels of employees and management in a team oriented environment. The individual in this position must be able to understand all policies, procedures, instructions, rules and regulations (including all safety training and safety information) associated with this position that are written in English. In addition, the individual must be able to appropriately respond to these and, where needed, provide reports, presentations, information and communications in English. Must be available to work days, evenings, or weekends, overtime as required.

REASONING ABILITY

Must possess the ability to read, comprehend, and interpret complex data, drawings, and schematics, to design and implement new equipment or planning new experiments. Requires interpretation of complex data for designing new devices or planning new experiments.

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 this job, the employee is regularly exposed to lighting and temperature as required for the office and manufacturing areas. Appropriate safety equipment is required by area. There is potential exposure to hazardous chemicals. A considerable amount of moving from department to department may occur in unfavorable weather conditions. The employee is exposed to the inherent dangers of the explosive materials used in SDI's manufacturing processes.

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 accommodation 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 move throughout the facility, traverse within production areas, communicate with others, and detect or exchange information or ideas. The employee occasionally is required to perform functions which require the manual operation of both general office productivity and test equipment as well as the ability to place, reach, detect, ascend/descend, and position self to navigate within confined working spaces. The employee is frequently required to remain in a stationary position. The employee must occasionally move or transport up to 50 pounds. Specific vision abilities required by this job include close inspection, identification of objects from a distance, color determination, peripheral detection, depth judgment, and the ability to identify details in varying conditions.

Disclaimer: The above statements are intended to describe the general nature and level of work being performed by people assigned to this classification. They are not intended to be construed as an exhaustive list of all responsibilities, duties and skills required of personnel so classified. This position description does not constitute an employment agreement between the employer and employee and is subject to change by the employer as the needs of the employer and requirements of the position change.