

JOB TITLE: Manufacturing Process Engineer

DATE: 13MAY2019

REPORTS TO: Engineering Manager

DEPT: Engineering

HOURLY/SALARY: Salary

EXEMPT: Exempt

APPROVED BY: Chief Operating Officer

SUPERVISES: None

JOB SUMMARY

Responsible for developing, evaluating, and maintaining the integrity of the manufacturing processes related to SMT and Through-Hole Technology PCB's and Electro-Mechanical including cable assembly production. Drive the effort for implementation of continuous improvement projects that will affect manufacturability, process efficiency, flow and quality. The manufacturing engineer will work closely with production, quality, test engineering, management staff and customers.

The position requires quick evaluation, troubleshooting and correction of non-conformities to the component level. Assist with new product introduction and prototype production. Implement engineering changes from customers in a manner that maximizes production efficiency and quality output throughout every stage of the process and product. Conduct pre-production meetings to make sure process operations are set up and performed properly, that manufacturing reviews are completed, and that all approvals are obtained from customers before production begins. Continually evaluate production processes and implement improvements. Collect and analyze data and provide reports pertaining to job efficiency and cost. Perform end-to-end process development for all new and existing products.

This hands-on role involves 75% time spent on the production floor.

REPORTING RELATIONSHIPS

The manufacturing process engineer does not have any direct reports but is expected to lead teams in process improvement projects.

DUTIES & ESSENTIAL JOB FUNCTIONS

- New product introduction from initial release through production process development and customer delivery
- Process improvement for efficiency utilizing lean & six sigma improvement methodologies
- Manufacturing instruction documentation for use in in the manufacturing process for process controls, process validation, process repeatability and customer approvals.
- Provide management with cost analysis for improvement projects, equipment risk analysis, specifying new equipment to meet the growing needs of the manufacturing department.
- Provide engineering estimates for direct labor hours and non-recurring engineering based on analyses of engineering drawings and workmanship standards.

OTHER FUNCTIONS AND RESPONSIBILITIES

- Participate and lead improvement projects on the manufacturing floor
- Provide training, coaching and mentoring to the manufacturing staff
- Experience with Configuration Management and Engineering Change Control for product drawings and related process documentation.

QUALIFICATIONS

- Minimum 3 to 5 years' experience in surface mount, through-hole technology, electromechanical, cable, and conformal coating in a manufacturing environment.

REQUIRED

- Thorough knowledge of related soldering and assembly processes, equipment, materials
- Must be able to identify key process variables and implement statistical process control plans
- Knowledge of IPC and J-STD standards
- Design of Experiments (DOE) experience. Should be able to offer examples of past projects and explain.
- Ability to develop and write process instructions and reports, and maintain process documentation

PREFERRED

- BS (in a related engineering discipline preferred)
- Intermediate level user of MS Office products
- Strong understanding of ERP system functionality

PHYSICAL REQUIREMENTS/WORK ENVIRONMENT

- Physically tolerate extended periods of sitting at a computer and keyboarding, frequent walking, occasional periods of standing and occasional lifting and carrying of up to 20 lbs.