**Quality Test Engineer**

**Job #519**

**Pay range: $90,000 – 110,000 Annual**

**Description:**

The Quality Test Engineer ensures a product, software and hardware, meets quality standards and user requirements by designing, executing, and monitoring testing processes, identifying and reporting defects, and collaborating with design and development teams to improve performance and prevent issues.

Key responsibilities include writing test plans, executing manual and automated tests, documenting bugs using bug tracking systems, and analyzing results to identify trends and recommend solutions.

**Responsibilities include but not limited to:**

* Develop Test Plans. Create comprehensive test plans and test cases to identify product strengths and weaknesses.
* Execute Tests. Design and build test equipment to perform manual and automated test for electrical and electronic components and systems.
* Identify & Report Defects. Find and document software bugs, glitches, and other defects in a bug tracking system, reporting them to developers and other stakeholders.
* Analyze & Troubleshoot. Analyze test results to identify patterns, troubleshoot errors, and implement improvements to the testing process.
* Collaborate with Teams. Work with developers, designers, and project managers to provide input on functional requirements and ensure product quality throughout the development cycle.
* Ensure Standards Compliance. Ensure the product adheres to end-user needs, industry standards, and company requirements.
* Maintain Test Documentation. Create and maintain databases of known defects and detailed records of testing procedures for future use and training.
* Oversees Process and Product Qualification Plans, including tool proofs, capability studies, control methods and FMEAs. Works with Engineering and Quality on control methods and FMEAs.
* Leads internal quality audits to corporate quality standards (systems and compliance). Identifies, directs, and follows through on actions to close gaps.
* Track quality data, including internal and external non-conformances, internal process capability, MRB, cost of quality, field failures reported by corporate quality members and internal audit results.
* Analyzes quality data, summarizes results, identifies activities for improvement, and drives those activities to completion.
* Manage the development and analysis of statistical data, specifications and or current quality issues to determine present standards and establish proposed quality and reliability expectancy.
* Mentors/trains other engineers and manufacturing leads on SPC, root cause analysis techniques, and preventive actions. Takes the lead in oversight of quality investigations.
* Transmit information to appropriate organizational functions, direct and assist in conducting research on product defects in conjunction with engineering personnel and recommend modifications to meet product quality standards.
* Owns key quality improvement projects - manages those projects through completion.
* Participates in and leads meeting aimed at improving quality of product.
* Ensures quality of purchased materials and parts meets specification, including supplier audits and resolution of identified quality issues related to suppliers.
* Set requirements for raw material or intermediate products for suppliers and monitor their compliance.
* Disposes of non-conforming material and product, including recommendations for lowest cost options.
* Uses customer feedback and internal quality data to revise control methods and FMEAs.
* Communicate the needs of the customer relative to product information, quality requirements (e.g., special characteristics, quality objectives and related training).
* Oversee Inspection department as well as develop, revise and maintain plans and procedures to ensure the company meets its organization's established quality standards.
* Responsible for overseeing the AS9100 Quality System which includes managing the AS9100 training and audits, managing the issue, control, and revision of the quality management system documentation.
* Work according to deadlines to ensure on-time delivery of products.
* Some travel may be required when off-site quality issues are discovered.
* Responsibilities include, but not limited to maintenance of database, customer relationship management, product life cycle management and enterprise asset management.
* Supports communication between Shop supervisors, Engineering and management and reports production issues to appropriate management.
* Ensure adherence to health and safety guidelines
* Other duties and projects as assigned by management.

**Requirements:**

**Education:**

Bachelor's Degree in Engineering.

**Skills and Experience:**

* Minimum 5 years preferred work experience in a quality test or test engineer role in manufacturing including knowledge of world class manufacturing techniques (process control and monitoring, cost reduction, problem solving, lean manufacturing).
* Ability to analyze complex problems, identify root causes of malfunctions, and propose effective solutions.
* Familiarity with different testing types (functional, regression, performance, security), testing tools, bug tracking systems, and sometimes programming languages.
* Must have in-depth knowledge of quality engineering tools, i.e. FMEA, Control Plans, SPC, Problem Solving Techniques, DOE, Acceptance Sampling, and MSA.
* Must have in-depth knowledge and audit experience in Quality Systems such as AS9100.
* Strong attention to detail and the ability to manage multiple tasks and projects simultaneously to meet deadlines.
* Ability to read, analyze, and interpret technical procedures, or governmental regulations.
* Demonstrated success in driving significant quality improvement initiatives at former employers.
* Excellent written and verbal communication skills, including ability to present clear, concise, and convincing presentations to all levels within an organization, including top executives.
* Ability to work with mathematical concepts such as probability and statistical inference, and fundamentals of geometry and trigonometry.
* Ability to apply principles of logical and scientific thinking to a wide range of intellectual and practical problems.
* Position requires ability to communicate effectively with management, employees, vendors and agency representatives.
* Demonstrated ability to analyze data from inspections and testing to develop processes and procedures that improve the quality of products.
* Working knowledge of Military standards.
* ERP/MRP experience

**Physical Requirements include:**

* Position requires ability to frequently stand; walk; use hands and reach with hands and arms.
* The employee may also be required to lift product or equipment weighing up to 50 lbs