

Human Resources

DELKIN DEVICES

JOB DESCRIPTION

Role: MANUFACTURING ENGINEER

Department: QUALITY CONTROL
Cost Center: 02-7500

Reports To: QUALIUTY ENGINEERING
MANAGER

Type of position: Full-Time Part-time **Hours:** 40/wk Exempt Non-Exempt

Location: CA AZ MA WA EU Other (remote from home office)

Employee Name:

Employee Signature:

Date:

Company: Delkin Devices is a privately held company founded in 1986, with Corporate Headquarters in San Diego, CA and European Offices in Birmingham, England. We are consistently recognized as one of San Diego County's leading manufacturing companies, with sales and distribution channels across the world. Delkin isn't just another flash storage SSD provider. We are an ISO 9001 certified manufacturer exclusively focused on non-volatile storage solution requirements for application-specific embedded, industrial OEMs. Utilizing controlled configurations, life-cycle management, product customization, and an outstanding USA-based design, manufacturing, and support team, Delkin delivers exactly the right products needed by OEMs for embedded and industrial applications.

Summary: Responsible for maintaining and improving production capacity and capability on SMT production lines and their related post-processing equipment to maximize throughput and to ensure quality products are assembled and delivered on time. Supports Manufacturing Operations in the setup of production machines, including, software loading, calibrations, testing, and troubleshooting. Plans and executes all levels of routine maintenance on production equipment in a highly automated SMT manufacturing environment. Provides technical support for SMT machines and Operators and collaborates with Engineering to create, implement, and maintain continuous process improvement programs.

Duties and Responsibilities:

- Maintain all fixtures and equipment through scheduled preventive maintenance and inspections and perform minor repairs and maintenance, as necessary.
- Support, develop and provide training on all aspects of SMT equipment.
- Perform reflow oven thermal profiles and associated documentation.
- Troubleshoot and repair production equipment, perform root cause analysis; identify and document root causes at component, sub-assembly, and machine levels, and fix the root cause.
- Ensure all PM's/CAL's are up-to-date.
- Track manufacturing metrics to detect potential problems and provide preventive solutions to avert problems before they happen.
- Establish and create processes for other departments, as assigned.

Human Resources

- Participate in cross-functional process improvement teams in the design, development, analysis, manufacturing and testing of products.
- Develop production fixturing in support of SMT and secondary operations.
- Manage and monitor prototype builds and provide Design for Manufacturability feedback to the design team.
- Drive continuous improvement of manufacturing processes by evaluating new processes and/or modifications to existing processes and equipment.
- Develop work instructions and technical procedures, document troubleshooting methods, document test results, analyze data, develop corrective actions based on analysis, and identify ergonomic improvements associated with the assembly and testing of products.
- Develop and mentor current team members to support maintenance activity.
- Participate in equipment evaluation and selection with Engineering and management staff.
- Find ways to reduce expenses while maintaining production quality and integrity standards.
- May assemble or rework electrical or mechanical parts using hand tools, small power tools and soldering equipment.
- Lead, develop and train Operators and less experienced maintenance technicians.
- Specific projects and other duties as assigned.

Minimum Job Requirements:

- At least a High School diploma or GED;
- A vocational or technical degree or higher education in a manufacturing related discipline is preferred;
- At least two (2) years directly-related manufacturing experience; or
- Equivalent combination of education and experience is required.

Knowledge, Skills and Abilities Required:

- Highly effective equipment management and operational skills are required to support automated SMT production equipment (Samsung CP45, SM421, MPM printer, Heller 1809EXL and 1700W ovens, Focal Spot Verifier HR X-ray)
- Ability to read and follow technical instructions, bill of materials, engineering assembly drawings and work instructions.
- Ability to work in a team environment and be a contributor toward team goals.
- Self-directed to perform the daily duties as required. Be proactive in identifying problems.
- Ability to change product programs and product set up on the SMT equipment.
- Ability to perform manual rework using SMT hand tools.
- Can identify SMT components along with polarity markings where indicated.
- Demonstrated knowledge in IPC-A-610 workmanship criteria.
- Be willing and able to train and work in other areas as needed.
- Always promote a safe work environment and be capable of wearing personal protective equipment as required.

Working Conditions:

- Work is primarily performed in a typical Production and Warehouse environment.
- Position will be *regularly* required to talk and hear, walk, sit, and stand, and to reach with hands and arms, must be able to walk up and down stairs.
- Position requires significant periods of walking and standing with periodic amounts of lifting up to 50 pounds.

Human Resources

- Regular use of a computer keyboard is required; vision requirements will be mostly close for computer monitor use and for equipment review.
- Some exposure to low to moderate levels of noise and variations in temperatures.
- Limited exposure to physical risk.