

Human Resources

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DELKIN DEVICES

SMT Engineering Technician

Name:

Department: Quality / 02-7500

Reports to: Quality Engineering Manager

Type of position:

Full-Time Part-time

Hours: 40 per week

Exempt Nonexempt

Employee Signature:

Date:

Summary: Responsible for maintaining and improving production capacity 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.
- Participate in cross-functional process improvement teams in the design, development, analysis, manufacture, and test of products.
- 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.

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- 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.

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.
- Promote a safe work environment at all times and be capable of wearing personal protective equipment as required.

Working Conditions:

- Work is performed in a production and warehouse environment.
- Exposure to moderate levels of noise and variations in temperature.
- Position requires significant time periods of walking and standing with periodic amounts of lifting up to 50 pounds

Minimum Job Requirements: High school education and a vocational degree or higher in a manufacturing related discipline, and/or equivalent years of directly related experience. Minimum 3 years in a manufacturing environment

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Required Training Events:	Validation: Employee	Validation: Trainer	Date Validated:
1. Employment Regulatory Training:			
1.1 New Hire Orientation			
1.2 Safety and Code of Safe Practices			
1.3 Harassment Preventive Training			
2. Training For Product Conformity Requirements:			
2.1 Quality Management System			
2.2 Quality Procedures			
2.3 Information System			
2.4 Product Familiarity		Continuous on the job training as new products develop	