



ICT Test Engineer

Company:	SMTc Corporation	Location:	Dongguan, China
Department:	Engineering	Reports To:	Engineering Manager

Company Overview:

SMTc Corporation is the company behind the manufacture, performance and intelligence sophisticated electronic devices all over the world. We are a global Electronics Manufacturing Services (EMS) provider with more than two decades of experience working in partnership with Original Equipment Manufacturers (OEMs) in computer, industrial, communications, consumer and medical markets.

- **Our customers are the heart of our business.** We go to great lengths to build strong, synergistic relationships with our customers and business partners worldwide.
- **Our services, processes and capabilities deliver customer value.** SMTc provides global end-to-end solutions including design, new product introduction, manufacturing, supply chain management, and after-sales services for the whole product lifecycle.
- **Our people make it happen.** SMTc employees are responsive, results-oriented professionals with a track record for innovative, flexible solutions focused on customer needs. Our expertise in quality, technology and supply chain management offers customers a distinct competitive advantage.
- **Our business is global.** SMTc operates a global manufacturing network with operations in Canada, the United States, Mexico and a partnering relationship in China. For more information: www.smtc.com.

Position Overview:

The ICT Test Engineer is responsible for the developing and testing of electronic products in-house to ensure that when delivered, it meets customer expectations. ICT Test Engineers manage customer expectations by working with customer engineering to setup pass / fail limits. ICT Test Engineers also establish and enhance manufacturing test processes, effective cost approaches in order to drive for continuous improvements and higher quality.

Key Responsibilities:

- Develop and debug ICT test programs for Printed Circuit Board assemblies (PCBAs) and/or electronics systems by meeting customer supplied specifications.
- Support ICT test processes for Printed Circuit Board assemblies (PCBAs) and/or electronics systems by meeting customer supplied specifications.
- Review customer ICT test documentation and qualify bill of material (BOM) structures, process for program parts and the appropriate files required to support the associated test process.
- Set up and validate ICT test equipment, software and fixtures for customer's products and PCBAs.
- Create and update detailed ICT test procedures, if not provided by customer, based on a step by step methodology of performing the customized test process in SMTc's manufacturing environment.

- Work with Manufacturing Engineer to optimize test flow and sequence of manufacturing process.
- Establish and maintain the calibration records and a maintenance schedule of all test equipment and accessories used in manufacturing.
- Set up SMTC internal systems for real time data collection with customer specific failure modes.
- Monitor test yields using our CIM data collection system based on set quality goals, and;
 - Establish a continuous improvement engineering action register; updates will be required on a weekly basis.
 - Perform failure analysis to the component level using schematics/blue prints.
 - Work with Manufacturing Engineer to resolve manufacturing defects caught at test.
 - Work with customer to highlight design issues and manage resolution.
 - Verify test set up and provide enhancements through procedural, mechanical or automation software additions to improve yields and test process.
- Analyze, debug and support ICT test stations, fixtures and equipments and establish a plan to minimize down time.
- Train ICT test operators and technicians on performing test process, provide additional documentation if needed.
- Ensure the safety of the ICT test operator and/or technician is designed into the test process and never jeopardized.
- Evaluate ICT test cycle times and provide a capacity measurement report for stations and manpower based on product demand loaded.
- Interface with customer and no-site Engineering team to improve test coverage.
- Evaluate customer Engineering Change Orders (ECOs), identify hardware and software impact on test process, provide cost/labor changes if applicable; implement ECO when all technical/cost related items are submitted and resolved.
- Update ICT test programs with customer Engineering Change Notice (ECN) - Altering the test programs to meet new customer test requirements.
- Backup all ICT test programs - Ensure a spare copy for test programs is available or obtain from installation s/w from customer or development group, if not stored on the network.
- Prepare a list of necessary spares used on the test stations such as cables, connectors, and test equipment to reduce down time.
- Perform Design for Testability (DFT) reports to the customer when requested on new or existing assemblies based on SMTC DFT guidelines.

Required Skills & Knowledge:

- Effective problem solving and organizational skills.
- Effective communication skills (written and verbal).
- Strong interpersonal skills and the ability to work within a team environment.
- Excellent computer skills.
- Understanding of software applications.
- Very good knowledge on the Teradyne 228x/TL87 platform (H/W and S/W)
- Detail and quality oriented.
- Strong leadership and training skills.
- Training will be provided on learning SMTC systems and custom applications.

Required Qualifications and Experience:

- 1 to 4 years engineering experience in the contract electronic manufacturing industry.
- Bachelor Degree in Electrical or Electronics Engineering.
- Preferred experience in an ISO environment.
- Development experience using Fabmaster, CAD translation and manipulation;

- Development using the Genrad/Teradyne ATG
- Fixture design and fixture files generation using Fabmaster
- Based on component specs, generate digital device models for ICT Testing
- Boundary scan development experience is recommended
- Any experience on the HP3070 platform using the HP-UX OS as well as Flying head probe equipment will be very beneficial

Application Process:

Manager, Human Resources

asiahr@smtc.com

The application deadline date for this opportunity is **March 5th, 2010**