**TEST ENGINEER**

**JOB DESCRIPTION**

The Test Engineer determines how to create a process that will test a particular product in manufacturing and assure that the product meets applicable specifications. Test Engineer is responsible for determining the best method of achieving the highest test coverage using different test processes. Test Engineer must have board level understanding of In-Circuit Test (ICT), Flying Probe Test (FPT), Boundary Scan Test (BST), Automated Optical Inspection (AOI), Automated X-Ray Inspection (AXI), and Design-for-Test (DFT) strategies to ensure test capability. Test Engineer must have an understanding of Functional Test manual and automated test strategies. The Test Engineer must have an understanding of Reliability Run-in, Burn-in, and Environmental Stress Screen (ESS) test techniques and strategies.

**ELECTRONICS TECHNICIAN**

**SUMMARY**

Ensures the reliability of products through the analysis, troubleshooting, modification, and repair of electronic components, parts, equipment, and systems at various stages of the production process as well as the development of test apparatus and methods to prove that functionality and design meet industry and customer specifications.

- Reads test schedules, job folders, schematics, etc. to determine test procedures and equipment to be used.
- Utilizes test instruments to test functional performance of systems, subassemblies, and parts.
- Interprets results of tests based on dials and digital displays and compares with customer specifications or industry standards.
- Records test data or plots results on graph.

May also perform product test functions assisting the on-time delivery functions of the manufacturing floor. This role is an entry level responsibility that provides fundamental knowledge of assemblies and procedures within the department. As skillset increases, troubleshooting capabilities increase and opportunities are presented for growth within the Test Department.

**MACHINE OPERATOR – SMT**

**SUMMARY**

Tends computer controlled PNP/I-10 machines that automatically insert electronic components such as resistors, capacitors, diodes, and integrated circuits, onto lands of PCBs. Set up and operate manual/auto screen printers, and reflow ovens by performing the following duties:

**PNP Operation**

- Positions paper tape reels or plastic tubes of components into feeding mechanism to load PNP machine,
- Machine programming directing insertion of components in specified sequence and location on PCB,
- PCB removal from machine bed and inspection for defects,
- Programming machine adjustments, clear jams, or process interruption when malfunctions/defects occur.

**Screen Printer Operation**

- Sets up, operates and monitors screen printers to meet job specifications,
- Cleans and maintains printer equipment and supplies,
- Performs reflow oven temperature verification.