ASTHA SINGH

Quality Assurance Engineer

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Educational Qualification

B. Tech in ECE, *MG Institute of Management and Technology (AKTU)*
CGPA: 8.43

Diploma in ECE,
Girls Polytechnic Varanasi, U.P

Skills:-

Technical & Quality Skills

- 7 QC Tools, 8D Methodology, Root Cause Analysis
- APQP, FMEA, Control Plan (CP), MSA, SPC
- Lean Manufacturing, Kaizen, Poka-Yoke
- SMT & TH Process Optimization, PCBA Analysis
- Predictive Analytics for Defect Prevention
- Six Sigma (Green Belt exposure or certification if applicable)

Data & Reporting Skills

- MIS Reporting (Daily/Weekly/Monthly)
- Data Analysis using Excel (Pivot Tables, Power Query)

Software & ERP

- SAP (Quality & Production Modules)
- MS Office Suite (Excel, Word, PowerPoint)

Profile

Quality-focused professional with **3 years of experience** in electronics manufacturing and process improvement. Proficient in 7 QC Tools, 8D methodology, and 5 Core Tools (MSA, SPC). Skilled in SMT processes, PCBA analysis, testing, and rework procedures. Experienced in root cause analysis for customer complaints and field failures, implementing Kaizen and Poka-Yoke for continuous improvement, managing 4M changes, and driving defect reduction through Red Bin meetings and process optimization.

Work Experience

QUALITY ASSURANCE Engineer,
Napino Auto and Electronics Ltd.
22/06/2023 – Present

- Performed **customer return part analysis** and **root cause analysis** for complaints and field failures; prepared and presented **8D reports and PPTs** for closure and effectiveness verification.
- Prepared/updated **MSA and SPC documentation**, monitored process capability and stability, and resolved in-house quality issues using multiple tools; executed **CAPA for top defects**.
- Led **daily morning meetings** for gap analysis and **Red Bin meetings** with cross-functional teams for defect analysis and rapid containment; coordinated with production, maintenance, and process teams for corrective actions.
- Conducted **process setup verification**, drove **process improvement**, **productivity enhancement**, and ensured **First Board Approval** for SMT & TH processes; validated **Master Samples** and implemented **Poka-Yoke systems**.
- Prepared **MIS reports (Daily/Weekly/Monthly)** for SMT & TH processes; published dashboards for trends and actions; maintained **customer audit records** and ensured timely **NC closure**.
- Developed **check sheets, WI/SOP/OPL, and Quality Alerts**; trained operators; updated complaint index register and rejection data with action plans to reduce recurrence.
- Conducted **X-ray analysis of defective parts**, **strain tests**, and prepared detailed reports; performed **5S audits** and **process/patrolling audits** per Control Plan and check sheets.

Measurement Instrument Knowledge:-

Vernier Caliper, Micrometer, VMS, LCR Meter, Multimeter, X-Ray Inspection System, CMM (Coordinate Measuring Machine), Torque Wrench/Torque Tester, Oscilloscope, Height Gauge & Dial Gauge, Surface Roughness Tester.

Training:-

5S, 7QC Tool, MSA, SPC, Part, Handling, 4M Change, EHS, 5Why, 8D, CP

- Implemented **Lean Manufacturing**, **Kaizen initiatives**, and **Poka-Yoke systems** to achieve zero-defect manufacturing, reduce cycle time, and improve throughput and yield in SMT & TH processes.
- Experienced in **Quality Management Systems (QMS)** and **SAP**; drove continuous improvement projects with measurable outcomes.
- Exposure to **Six Sigma methodology** and **AI-driven quality analytics** for defect anticipation and process reliability enhancement; ensured compliance with **ISO standards** and **IATF 16949** for audit readiness.

Certification:-

Embedded system
Completed 45-day training on microprocessor-based hardware and software integration.

CP, APQP, FMEA
Certified in automotive quality planning and risk analysis aligned with IATF 16949 standards.