

Overview A highly skilled Lead Quality Technician experienced in ensuring material and product conformance through detailed inspections, in-process audits, and final verification of fabricated and machined components. Strong background in interpreting customer requirements, applying quality standards, and maintaining accurate documentation throughout the production lifecycle.

Core Responsibilities & Experience

- **In-Process & Final Quality Control:** Monitors manufacturing quality from initial fabrication through final machining, ensuring products meet dimensional, geometric, and customer-specified requirements.
- **Weld Quality Inspection:** Performs VT, MT, and PT weld inspections and verifies compliance with applicable codes and standards.
- **NDE Coordination:** Interfaces with third-party NDE providers for UT and RT inspections and ensures proper execution and documentation.
- **Machining & Fabrication Inspection:** Uses precision measurement tools to inspect machined features, fabricated structures, and critical tolerances.
- **Surface & Coating Inspection:** Conducts shot-blast, paint, and final detailing inspections prior to shipment.
- **Documentation & Reporting:** Creates and maintains clear, accurate inspection reports and measurement records for project traceability.
- **Calibration Support:** Assists in maintaining calibration systems through device audits, inspections, and re-calibration activities.
- **Process Audits & Improvement:** Performs internal process audits to verify control sustainability and supports corrective actions and continuous improvement initiatives.
- **Customer Interaction:** Supports customer source inspections, quality-related visits, and resolution of quality concerns.
- **Non-Conformance Management:** Initiates and processes NCRs, participates in root-cause analysis, and supports corrective and preventive action activities.

Qualifications & Technical Strengths

- 5+ years of quality experience, ideally in heavy manufacturing or machinery environments (degree may substitute for experience).
- Strong understanding of machining processes; machine shop or machinist background preferred.
- Skilled in reading and interpreting blueprints, specifications, fabrication drawings, and manufacturing quality documentation.
- Proficient in applying tolerances and **GD&T** principles.
- Experience with **FARO metrology**, **CMM**, and other computer-aided measurement tools.

- Strong computer skills, including Microsoft Office.
- Excellent attention to detail, problem-solving ability, and communication skills.
- Experienced in documenting, logging, and maintaining inspection reports.

Preferred Qualifications

- **Lean Six Sigma Green Belt** certification.
- **ASQ certifications** (CQA, CQE).
- Experience with **DOD contract requirements**.
- Background in **ASME-coded fabrication environments**.
- Welding/fabrication experience, including reading weld symbols, NDT symbols, and gauging weld fit-ups and sizes.
- NDE certification (VT/PT/MT) or ability to obtain Level I/II.
- Working knowledge of **AWS D1.1**, **ASME BPVC**, and **NAVSEA** welding and inspection codes.
- Experience with weld program quality control and PQR/WPQ/WPS documentation.
- Trade school diploma, journeyman card, or **AWS CWI** certification.

Physical & Equipment Capabilities

- Able to sit, stand, walk, kneel, stoop, and squat throughout the workday.
- Meets required vision acuity standards.
- Strong fine-motor skills.
- Comfortable climbing ladders or stairs and working in environments with fumes, noise, and varying temperatures.
- Experienced with computers, precision measuring tools, FARO metrology equipment, forklifts, overhead cranes, and power hand tools.