

Leah Morrison

QUALITY ENGINEERING MANAGER

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Summary

Quality engineering manager with 13 years in gear, drive and fluid control manufacturing, leading 6 quality engineers and 14 inspectors. Runs the ISO 9001 quality management systems for a 450-person plant, sets root cause analysis and PFMEA standards, and has cut cost of poor quality by 38% since 2021.

Skills

- Quality Management Systems
- ISO 9001
- Root Cause Analysis
- PFMEA
- SPC
- Lean
- Quality Assurance
- Technical Writing
- Leadership
- Problem-Solving Skills

Experience

Quality Engineering Manager

06/2021 - Present

Rock River Gear & Drive

Rockford, IL

Manufacturer of industrial gearboxes and drive systems with machining, heat treat and assembly.

- Lead 6 quality engineers and 14 inspectors across 2 shifts, with goals tied to scrap, escapes and audit results.
- Run the ISO 9001 quality management systems for a 450-person plant, passing 5 straight audits with no majors.
- Cut annual cost of poor quality from \$2.6M to **\$1.6M** by focusing root cause analysis on the top 10 defects.
- Introduce Lean layered process audits and SPC on 30 critical operations, raising first-pass yield to 96%.

Senior Quality Engineer

03/2017 - 05/2021

Forest City Fluid Controls

Rockford, IL

Maker of hydraulic and pneumatic valves for aerospace and industrial customers.

- Rewrote the PFMEA and control plans for **120** valve part numbers ahead of a major customer audit.
- Led quality assurance for 3 product launches, reaching target yields within 90 days of start.
- Authored 25 quality procedures to technical writing standards later adopted company-wide.

Quality Engineer

06/2013 - 02/2017

Stateline Precision

Belvidere, IL

Precision machining supplier of gears and shafts.

- Processed **300** nonconformance reports a year and chaired weekly material review board meetings.
- Ran capability studies on 60 gear features, bringing 50 to Cpk 1.33 or better.
- Wrote 40 inspection plans for new gear part numbers, cutting first-article delays by 2 days.

Education

Bachelor of Science

05/2013

Northern Illinois University

DeKalb, IL

Mechanical Engineering

Certificates

Certified Quality Engineer (CQE)

ASQ

2016

Certified Manager of Quality/Organizational Excellence (CMQ/OE)

ASQ

2022