

Metallurgical Quality Engineer

Robstown, Texas | QHSE | Reports to Director, QHSE

JOB PURPOSE

Provide metallurgical support to Tex-Isle's Tubular Division in Robstown, Texas. Help ensure raw materials, HFW pipe manufacturing processes, heat treatment, and mechanical properties meet applicable API requirements and Tex-Isle standard operating procedures (SOPs). Directly oversee metallurgical testing activities.

KEY RESPONSIBILITIES

- Provide technical input on steel supplier selection and participate in supplier qualification.
- Review material test reports (MTRs) for compliance with applicable material specifications.
- Investigate raw material defects and performance issues; work with steel suppliers to improve steel quality.
- Provide metallurgical oversight of high-frequency welded (HFW) pipe manufacturing, induction heat treatment, and mechanical testing.
- Provide technical oversight of tensile, hardness, and Charpy impact testing, as well as chemical analysis.
- Perform metallographic evaluations for untempered martensite, martensitic structures, excessive grain growth, weld abnormalities, and other metallurgical anomalies.
- Lead failure and reject analysis for pipe rejected due to weld abnormalities or inferior raw material quality.
- Review quality and production data, including key performance indicators (KPIs), audit findings, nonconformance reports, and repairs; identify trends and recommend corrective actions.
- Participate in internal quality compliance audits.
- Lead process improvement projects.

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REQUIRED QUALIFICATIONS AND CAPABILITIES

- Bachelor's degree in metallurgical engineering.
- Familiarity with API/ISO standards.
- Strong initiative, problem analysis, and problem-solving skills.
- Ability to thrive in a team environment and encourage participation.
- Ability to work with industry professionals, sales teams, staff, corporate leadership, and department personnel with confidence, diplomacy, enthusiasm, and perseverance.
- Attention to detail and strong documentation skills.
- Ability to work toward Tex-Isle quality and safety goals.

PREFERRED EXPERIENCE AND BENEFICIAL SKILLS

- 2-5 years of experience.
- Experience with electric resistance welded (ERW) pipe or oil country tubular goods (OCTG).
- Advanced Excel, AutoCAD, and MATLAB skills.

WORKING REQUIREMENTS

- Some overtime and travel are required.
- Must be comfortable lifting at least 60 lb on a regular basis.

Interested in the role?

Contact Tex-Isle for application instructions.

texisle.com/contact-us