



# Example of Integrity Engineer Job Description

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Our company is growing rapidly and is looking to fill the role of integrity engineer. To join our growing team, please review the list of responsibilities and qualifications.

## Responsibilities for integrity engineer

- Inspect, interpret diagnostic data, perform technical data analyses, write technical reports documenting component issues, and provide detailed recommendations to resolve issues for fixed equipment and piping systems
- Maintain excellence in MI regulatory compliance documentation, including paper files, electronic databases
- Provide expert technical support for Root Cause Failure Analysis (RCA), Failure Modes and Effects Analysis (FMEA), nondestructive testing, predictive maintenance, Fitness for Service (FFS) evaluations and Life Extension studies
- Perform criticality analyses and keep the evaluations updated at least every five years
- Perform inspections, incident investigations, and analyze equipment failures
- Identify, investigate and assess deterioration/damage mechanisms and recommend appropriate, timely maintenance of affected equipment, devices and systems
- Drive inspection and corrosion control plan and methods to manage integrity, optimize inspections frequency, maintenance costs and plant availability
- Participate in preparation of capital and operating budgets for inspections, replacements and upgrades
- Supervise, witness and participate in certification of hydrostatic testing and load testing
- Apply value analysis to repair/replace and repair/redesign decisions

## Qualifications for integrity engineer

- In-depth knowledge of body closures design, engineering and manufacturing processes
- Knowledge of body electro-mechanical systems
- Familiar with industry best-practices for exteriors, including fit-finish and perceived quality
- Robust knowledge of inspection techniques such as UT/MP/DP/RT/Eddy Current/TOFD/Creep Wave
- Minimum of 7 years engineering experience in oil and gas industry required