

# Corrosion engineering

The Lloyd's Register Group offers a range of corrosion engineering support services that help maintain and assure the integrity of your asset, from design to decommissioning. These services include:

- design appraisal (verification and validation)
- corrosion support to asset integrity management services
- corrosion consultancy services

## Business benefits

We offer an independent and experienced perspective that helps you:

- maintain the safety and integrity of your facility
- optimise capital expenditure during design or modification
- optimise operational expenditure

The key to these deliverables is our capability to develop and implement:

- pro-active corrosion control programmes
- cost-effective risk-based inspection programmes

Our design appraisal services offer an independent assessment with particular attention to safety critical items in the context of regulatory and classification requirements.

Our asset integrity management support services help ensure a structured and auditable approach is taken to maintaining plant integrity in a cost-effective manner. We can develop site-specific, integrated corrosion management strategies and have the expertise and tools to implement these strategies. A key capability is the competence and experience to conduct corrosion risk assessments, which provide an auditable basis for risk based inspection programmes.

OIL AND GAS  
SERVICES





## Our services

Our corrosion engineering competencies and experience is encompassed in our range of services, which includes:

- corrosion management strategy development
- corrosion risk analysis
- risk-based inspection
- corrosion and erosion modelling
- materials selections
- coating systems
- cathodic protection systems
- site investigations/metallurgical and failure analysis
- corrosion inhibition/chemical treatment regimes
- corrosion monitoring
- corrosion awareness and technical skills training
- process system design appraisal
- auditing of corrosion management systems

Our corrosion team can provide expertise to investigate and resolve corrosion related issues wherever they arise – geographically or technically.

[www.lr.org](http://www.lr.org)

**For further information  
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