



Cement Bond Logging (CBL) and Corrosion Monitoring Course

25 – 29 April 2027
Cairo (Egypt)



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Introduction to Cement Bond Logging and Corrosion Monitoring:

The Cement Bond Logging CBL and Corrosion Monitoring course equips participants with an understanding of key techniques and methodologies used in oil and gas monitoring. It focuses on evaluating well integrity and monitoring corrosion in the oil and gas industry. Participants will learn about cement bond logging techniques, including using CBL cement bond logs to assess cement quality and ensure zonal isolation.

This Cement Bond Logging CBL and Corrosion Monitoring training course covers the interpretation and evaluation of CBL data. It also highlights tools and methods for detecting and mitigating corrosion in oil and gas operations. Participants will be skilled at applying practical strategies to enhance the safety, reliability, and efficiency of well operations and infrastructure.

The Cement Bond Logging CBL and Corrosion Monitoring course provides in-depth training on oil and gas corrosion and effective monitoring techniques to ensure well integrity. Participants will explore corrosion in oil and gas operations and learn to mitigate its impact using advanced inspection methods. It covers cement bond logging principles, including CBL cement bond log interpretation, evaluation, and applications.

Attendees will gain hands-on experience with cement bond logging tools and techniques, which are essential for accurate well integrity assessment. Through Cement Bond Logging CBL and Corrosion Monitoring training, professionals will understand the meaning of CBL and how to apply it in real-world scenarios. It highlights best practices in oil and gas monitoring to enhance asset longevity and operational efficiency.

Targeted Groups for CBL and Corrosion Monitoring:

This Cement Bond Logging CBL and Corrosion Monitoring course is ideal for the following professionals:

- Petroleum and drilling engineers.
- Oil and Gas Well integrity specialists.
- Logging and wireline operators.
- Corrosion engineers and inspectors.
- Reservoir and production engineers.
- Asset integrity managers.
- Oilfield service technicians.
- Health, safety, and environment HSE professionals.

Objectives of the Course on Cement Bond Logging and Corrosion:

By the conclusion of the Cement Bond Logging CBL and Corrosion Monitoring course, participants will achieve the following objectives:

- Understand the principles and methodologies of Cement Bond Logging CBL.
- Gain skills in interpreting CBL data for cement integrity evaluation.
- Explore the significance of zonal isolation in well operations.
- Recognize various corrosion mechanisms in oil and gas equipment.
- Apply advanced techniques for corrosion monitoring and mitigation.
- Enhance their competency in maintaining oil and gas well integrity and asset evaluation.
- Implement best practices to ensure operational safety in the oil and gas sector.
- Analyze real-world case studies to apply theoretical knowledge effectively.

Targeted Competencies in CBL and Oil and Gas Corrosion:

Participants in this Cement Bond Logging CBL and Corrosion Monitoring training will develop the following competencies:

- Proficiency in cement bond log interpretation.
- Skills in assessing zonal isolation and its impact on well integrity.
- Techniques for detecting and preventing corrosion.
- Expertise in oil and gas well integrity evaluation.
- Analytical skills in data analysis and reporting.
- Strategic approaches to corrosion prevention and equipment monitoring.
- Capabilities in safety and risk management practices in oil and gas operations.

CBL Meaning and Relevance in the Oil and Gas Industry:

CBL, or Cement Bond Logging, is crucial for oil and gas well integrity. It provides insights into cement quality and the isolation between different zones. CBL plays a significant role beyond the initial phase of well construction, extending to ongoing monitoring to maintain safe and efficient operations. This Cement Bond Logging CBL and Corrosion Monitoring course offers in-depth CBL training, enhancing participants' understanding of the meaning and applications of CBL.

Course Content:

Unit 1: Fundamentals of Cement Bond Logging CBL:

- Overview of cementing operations in oil and gas wells.
- Principles of Cement Bond Logging and its Applications.
- Tools and equipment used in CBL operations.
- Acoustic logging and its role in cement evaluation.
- Interpret CBL data and identify bonding issues.
- Common challenges and limitations in CBL analysis.

Unit 2: Zonal Isolation and Well Integrity Assessment:

- Importance of zonal isolation in well integrity.
- Evaluating cement quality for effective zonal isolation.
- Identifying channels and voids in cement layers.
- Relationship between CBL results and well performance.
- Case studies of successful and failed cement operations.
- Practical techniques for improving cement bonding.

Unit 3: Corrosion Mechanisms and Detection Techniques:

- Fundamentals of corrosion in oil and gas operations.
- Types of corrosion affecting wells and pipelines.
- Techniques for detecting corrosion in equipment.
- Role of logging tools in identifying corrosion hotspots.
- Analyzing corrosion data for preventive actions.
- Impact of corrosion on asset integrity and operational safety.

Unit 4: Corrosion Monitoring and Mitigation Strategies:

- Methods for monitoring corrosion in real-time.
- Overview of non-destructive testing NDT techniques.
- Implementing cathodic protection systems.
- Use of chemical inhibitors to control corrosion.
- Strategies for extending the lifespan of infrastructure.
- Case studies on effective corrosion management practices.



Unit 5: Safety, Risk Management, and Data Analysis:

- Ensuring safety during CBL and corrosion monitoring operations.
- Risk assessment in cementing and corrosion management.
- Best practices for data recording and reporting.
- Analyzing logging data for actionable insights.
- Integrating CBL and corrosion data into decision-making processes.
- Overview of regulatory standards and compliance requirements.