



*Training Course:
Advanced Data Management for Oil and Gas
Professionals*

*22 - 26 September 2025
Barcelona (Spain)
Grupotel Gran Via 678*

Training Course: Advanced Data Management for Oil and Gas Professionals

Training Course code: SC235159 From: 22 - 26 September 2025 Venue: Barcelona (Spain) - Grupotel Gran Via 678
Training Course Fees: 6000 € Euro

Introduction

In the ever-evolving landscape of the oil and gas industry, data has emerged as a strategic asset. The ability to harness, manage, and derive actionable insights from vast volumes of data is crucial for optimizing operations, ensuring safety, and making informed decisions. Welcome to the "Advanced Data Management for Oil and Gas Professionals" training program, where we dive deep into the intricacies of data management tailored specifically for the oil and gas sector.

Objectives

By the end of this training program, participants will:

- **Understand the Significance of Data Management:** Gain a profound appreciation for how effective data management can positively impact various facets of the oil and gas industry, from exploration and production to refining and distribution.
- **Master Data Governance and Compliance:** Learn the principles of data governance and compliance specific to the oil and gas sector, ensuring data is handled securely and ethically.
- **Acquire Data Collection and Integration Expertise:** Develop the skills to collect data from diverse sources, integrate it seamlessly, and perform real-time data streaming for enhanced decision-making.
- **Design Robust Data Architectures:** Design data storage solutions, including data warehouses and data lakes, and understand the benefits of cloud-based data storage in an oil and gas context.
- **Utilize Advanced Data Analytics and Visualization:** Explore advanced data analysis tools, predictive analytics, and data visualization techniques to derive actionable insights from oil and gas data.
- **Implement Advanced Data Management Strategies:** Learn how to manage data throughout its lifecycle, establish master data management practices, and implement effective data governance strategies tailored to the oil and gas industry.

Target Audience

This training program is designed for a diverse range of oil and gas professionals, including but not limited to:

- Data Analysts and Scientists in the Oil and Gas Sector
- IT and Data Managers in Energy Companies
- Operations and Production Managers

- Engineers and Geoscientists
- Compliance and Risk Managers
- Business Intelligence Professionals
- Those aspiring to enter the field of advanced data management in oil and gas

Outline

Day 1: Introduction to Advanced Data Management

- Welcome and Program Overview
- Importance of Data Management in Oil and Gas
- Key Challenges in Data Management
- Data Governance and Compliance
- Data Quality Management
- Data Security and Privacy in Oil and Gas

Day 2: Data Collection and Integration

- Data Sources in Oil and Gas
- Data Collection Methods and Best Practices
- Data Integration Techniques
- Data Transformation and ETL Extract, Transform, Load Processes

Day 3: Data Storage and Architecture

- Storage Solutions for Oil and Gas Data
- Data Warehouses and Data Lakes
- Cloud-Based Data Storage
- Data Modeling and Schema Design
- Data Compression and Optimization
- Case Study: Designing an Oil and Gas Data Architecture

Day 4: Data Analytics and Visualization

- Introduction to Data Analytics
- Advanced Data Analysis Tools and Techniques
- Predictive Analytics in Oil and Gas
- Data Visualization Best Practices
- Creating Dashboards for Oil and Gas Insights

Day 5: Advanced Data Management Strategies

- Data Lifecycle Management
- Master Data Management MDM in Oil and Gas
- Data Governance Implementation
- Data Strategy and Roadmap Development

Registration form on the Training Course: Advanced Data Management for Oil and Gas Professionals

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