

Cloud Computing in Oil & Gas Industry for Managers

“Empower your organization with cloud-first strategies for data-driven operations, scalability, and innovation in oil & gas.”

Schedule

Venue	Fees
In-House	ASK FOR THE QUOTATION

► Available delivery methods: In-House Training

Introduction

Cloud computing is a critical enabler of digital transformation in the oil & gas sector, providing scalable infrastructure, enhanced data analytics, and improved collaboration. This course equips managers with strategic insights into the benefits, risks, and applications of cloud computing in upstream, midstream, and downstream operations. It covers practical guidance on cloud migration, cybersecurity, data management, vendor selection, and aligning cloud adoption with business outcomes—without requiring a technical background.

Objectives

- By the end of this course, participants will be able to:
- Understand cloud computing models and their relevance to oil & gas
 - Identify business drivers for cloud adoption in exploration, production, and refining
 - Analyze cloud service types: IaaS, PaaS, SaaS, and hybrid architectures
 - Assess cybersecurity, compliance, and risk implications of cloud use
 - Lead cloud migration and integration with legacy systems
 - Evaluate vendors and contracts for cloud services

Why Attend

This course empowers oil & gas leaders to confidently support and lead cloud-related decisions, ensuring digital investments are aligned with operational, financial, and safety goals.

Target Audience

- Senior Managers & Executives
- Operations & Asset Managers
- Digital Transformation Officers
- IT & Project Managers
- HSE, Data Governance, and Risk Managers
- Procurement, Finance, and Strategy Heads

Individual Benefits

- Understand cloud fundamentals in a business-relevant format
- Support cloud strategies that reduce costs and improve agility
- Improve decision-making through data centralization and analytics
- Communicate more effectively with IT and cloud service providers

Organizational Benefits

- Reduce IT infrastructure costs with scalable cloud services
- Enable real-time data sharing across global sites
- Improve operational continuity and disaster recovery
- Accelerate time-to-insight with cloud-based analytics
- Ensure compliance through secure, auditable cloud environments

Instructional Methodology

- Strategy-based lectures with visual case studies
- Group workshops and simulation activities
- Cloud readiness assessments and migration planning tools
- Live platform walkthroughs (AWS, Azure, or GCP examples)
- Expert facilitation and interactive discussions

Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE)

Training Hours: 7:30 AM – 3:30 PM

Daily Format: 3–4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Cloud Fundamentals for Oil & Gas Leaders

Module 1: What is Cloud Computing? – Models, Trends, and Definitions (07:30 – 09:30)

Module 2: Public, Private, and Hybrid Cloud – Which Is Right for Oil & Gas? (09:45 – 11:15)

Module 3: IaaS, PaaS, SaaS Explained for Decision-Makers (11:30 – 01:00)

Module 4: Global Case Study – Cloud Transformations in Energy Sector (02:00 – 03:30)

Day 2: Cloud Applications Across the Oil & Gas Value Chain

Module 1: Cloud in Upstream – Exploration, Seismic Data, Remote Operations (07:30 – 09:30)

Module 2: Cloud in Midstream – Logistics, Asset Monitoring, SCADA Integration (09:45 – 11:15)

Module 3: Cloud in Downstream – Refining, CRM, Supply Chain Collaboration (11:30 – 01:00)

Module 4: Workshop – Map Cloud Opportunities for Your Operation (02:00 – 03:30)

Day 3: Strategy, Integration & Migration Planning

Module 1: Assessing Readiness – Legacy Systems, Bandwidth, Workforce (07:30 – 09:30)

Module 2: Planning a Cloud Migration – Steps, Milestones, and Pitfalls (09:45 – 11:15)

Module 3: Data Architecture – Storage, Access, Integration (11:30 – 01:00)

Module 4: Cloud Analytics, Dashboards, and AI Services (02:00 – 03:30)

Day 4: Cybersecurity, Compliance & Risk Management

Module 1: Cloud Security – Shared Responsibility Model & Threats (07:30 – 09:30)

Module 2: Regulatory Compliance – GDPR, ISO, Local Regulations (09:45 – 11:15)

Module 3: Business Continuity, DR, and Incident Management in the Cloud (11:30 – 01:00)

Module 4: Simulation – Responding to a Cloud Security Incident (02:00 – 03:30)

Day 5: Leading Digital Change through the Cloud

Module 1: Digital Culture and Organizational Readiness (07:30 – 09:30)

Module 2: Managing Vendors – SLAs, Contracts, and Support (09:45 – 11:15)

Module 3: KPIs and ROI of Cloud Projects (11:30 – 01:00)

Module 4: Final Presentations – Your Cloud Strategy Roadmap (02:00 – 03:30)

Certification

Participants will be awarded a **Certificate of Completion: Cloud Computing in the Oil & Gas Industry for Managers**, demonstrating their ability to lead cloud adoption, drive digital transformation, and align IT initiatives with business value.

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