

DIGITAL TRANSFORMATION IN UPSTREAM FOR MANAGERS

“Accelerate upstream performance by mastering digital innovation—from field to platform.”

Schedule

Venue	Fees
In-House	ASK FOR THE QUOTATION

► Available delivery methods: In-House Training

Introduction

Upstream operations face growing challenges: rising costs, complex reservoirs, safety concerns, and decarbonization demands. This course equips upstream managers with the tools, strategies, and technologies to lead digital transformation efforts—from seismic data processing to drilling, completions, and production optimization. Learn how to harness AI, digital twins, IoT, cloud computing, and real-time analytics to enhance reservoir understanding, reduce NPT, and boost productivity.

Objectives

- By the end of the program, participants will be able to:
- Understand digital transformation drivers in upstream oil & gas
 - Evaluate the role of AI, digital twins, and automation in exploration & production
 - Design data-driven strategies to improve reservoir management
 - Lead change in operational processes using emerging technologies
 - Implement secure and sustainable digital ecosystems for field operations

Why Attend

This course offers a focused upstream perspective—turning technical challenges into opportunities for efficiency, safety, and value. It’s ideal for decision-makers seeking to modernize exploration and production through smart technologies and agile thinking.

Target Audience

- Exploration & Production (E&P) Managers
- Drilling, Completion, and Well Engineering Supervisors
- Reservoir and Subsurface Engineers
- Heads of Field Operations or Asset Management
- Technology Integration & Digital Strategy Teams

Individual Benefits

- Gain a practical roadmap to apply digital tools in field and offshore environments
- Strengthen leadership in data-driven decision-making
- Learn from upstream-specific case studies and technology demos
- Network with peers and exchange transformation experiences

Organizational Benefits

- Enhance production performance and reduce downtime
- Improve reservoir accuracy and NPT risk management
- Enable real-time operational visibility and collaboration
- Support ESG goals with sustainable, efficient digital practices

Instructional Methodology

- Case-based learning and strategic planning exercises
- Real-world upstream digital transformation examples
- Interactive simulations and diagnostic tools
- Technology demonstrations (AI models, digital twins, remote ops)
- Group projects and final roadmap presentation

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: Digital Vision for Upstream Operations**
- Module 1:** Understanding Upstream Digital Transformation (07:30 – 09:30)
 - Module 2:** Field Digitalization: From Subsurface to Surface (09:45 – 11:15)
 - Module 3:** Key Technologies: AI, IoT, Cloud, Edge in E&P (11:30 – 01:00)
 - Module 4:** Workshop: Assessing Your Digital Maturity (02:00 – 03:30)
- Day 2: Data-Driven Reservoir & Subsurface Innovation**
- Module 1:** Real-Time Reservoir Modeling & Smart Logging (07:30 – 09:30)
 - Module 2:** AI in Seismic Interpretation & Exploration Analysis (09:45 – 11:15)
 - Module 3:** Cloud Platforms for Subsurface Data Management (11:30 – 01:00)
 - Module 4:** Group Exercise: Subsurface Digital Twin Design (02:00 – 03:30)
- Day 3: Smart Drilling & Well Construction**
- Module 1:** Predictive Drilling: AI & Machine Learning (07:30 – 09:30)
 - Module 2:** Digital Well Planning & Real-Time Monitoring (09:45 – 11:15)
 - Module 3:** Edge Computing & Automation in Well Delivery (11:30 – 01:00)
 - Module 4:** Case Study: Drilling Optimization Through Automation (02:00 – 03:30)
- Day 4: Field Operations, Remote Monitoring & Cybersecurity**
- Module 1:** IoT-Enabled Field Devices & Condition Monitoring (07:30 – 09:30)
 - Module 2:** Remote Operations Centers (ROC) & Decision Support (09:45 – 11:15)
 - Module 3:** Cybersecurity & Risk Management in Upstream Ops (11:30 – 01:00)
 - Module 4:** Scenario Simulation: Digital Response to Field Failure (02:00 – 03:30)
- Day 5: Strategy, Change & Execution**
- Module 1:** Designing a Field Digitalization Strategy (07:30 – 09:30)
 - Module 2:** Change Leadership & Workforce Transformation (09:45 – 11:15)
 - Module 3:** KPI Mapping & ROI for Upstream Digital Projects (11:30 – 01:00)
 - Module 4:** Final Project: Present Your Field Digitalization Roadmap (02:00 – 03:30)

Certification

Participants will be awarded the **Certificate of Completion: Digital Transformation in Upstream for Managers**, recognizing their expertise in leading upstream digital initiatives.

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