

CONSTRUCTION MANAGEMENT FOR OIL & GAS PROJECTS



GENTEX[®]
TRAINING CENTER



Introduction

Oil and gas construction projects demand precise planning, strict safety standards, and strong technical coordination. This Construction Management for Oil & Gas Projects Training Course prepares participants to manage complex construction activities within upstream, midstream, and downstream environments. Furthermore, it covers essential practices for scheduling, cost control, quality assurance, and risk management specific to the energy sector. Participants will explore contract structures, procurement processes, and site execution methods used in refineries, pipelines, and offshore facilities. As a result, they will gain the practical knowledge needed to deliver projects safely, on time, and within budget while meeting strict industry regulations and technical specifications.

Construction Management for Oil & Gas Projects Course Objectives

- Explain construction project lifecycle stages within oil and gas facilities
- Apply project scheduling techniques using Primavera P6 and Gantt charts
- Interpret EPC (Engineering, Procurement, Construction) contract structures
- Apply API and ASME standards relevant to construction quality
- Manage construction risk using a structured risk register
- Coordinate site logistics for pipeline and refinery construction
- Apply cost control methods including earned value management
- Conduct quality assurance inspections using QA/QC checklists
- Manage HSE requirements during construction execution
- Apply change order procedures to control project scope

Course Methodology

- Practical workshops using real oil and gas project scenarios

LEARN BOLD. LEAD BEYOND

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com



- Case studies from refinery and pipeline construction projects
- Group exercises on scheduling and cost control tools
- Discussions on contract clauses and risk allocation
- Site logistics simulations for construction coordination
- Review of QA/QC and HSE documentation templates

Who Should Take This Course

- Construction managers and project engineers
- Site supervisors and field engineers
- Procurement and contracts specialists in energy projects
- QA/QC inspectors and HSE officers
- Project planners and schedulers
- Engineering consultants supporting oil and gas construction

Construction Management for Oil & Gas Projects Course Outlines

Day 1: Foundations of Oil & Gas Construction Management

- Overview of upstream, midstream, and downstream construction
- Construction project lifecycle stages
- Roles of owner, EPC contractor, and consultant
- Introduction to API and ASME standards
- Key challenges in energy sector construction





- Overview of site mobilization requirements

Day 2: Planning, Scheduling, and Cost Control

- Developing construction schedules using Primavera P6
- Building Gantt charts for phased construction
- Applying earned value management for cost tracking
- Managing budget variances and forecasts
- Coordinating resource allocation across trades

Day 3: Contracts, Procurement, and Risk Management

- Understanding EPC and EPCM contract models
- Reviewing procurement processes for materials and equipment
- Building and maintaining a risk register
- Applying change order and variation procedures
- Managing contractor and subcontractor relationships
- Allocating risk through contract clauses

Day 4: Quality Assurance and Site Execution

- Applying QA/QC checklists during construction
- Conducting inspection and test plans
- Managing welding and material certification records
- Coordinating pipeline and refinery site logistics
- Monitoring construction progress against baselines
- Handling non-conformance reports



Day 5: Health, Safety, and Project Closeout

- Applying HSE requirements during execution
- Managing permit-to-work systems on site
- Conducting safety audits and inspections
- Preparing mechanical completion documentation
- Managing project handover and closeout procedures

Conclusion

By successfully completing Construction Management for Oil & Gas Projects, participants will have acquired the knowledge to plan, schedule, and control construction activities within energy sector projects. In addition, they will understand contract structures, risk management, and quality assurance practices specific to oil and gas facilities. This Training Course equips professionals with practical tools used across refinery, pipeline, and offshore construction projects. Gentex Training Center remains committed to strengthening technical construction management capabilities across the energy industry.

FAQs

Q1 What is the "Construction Management for Oil & Gas Projects" course about?

This course covers construction planning, scheduling, and execution methods used in upstream, midstream, and downstream oil and gas facilities. It focuses on contract management, quality assurance, and risk control practices specific to energy sector construction projects.



Q2 What are the key benefits of the "Construction Management for Oil & Gas Projects" course?

Participants gain stronger project control skills, improved contract understanding, and practical risk management techniques. Furthermore, they develop the ability to coordinate construction activities efficiently, reducing delays and cost overruns across complex energy infrastructure projects.

Q3 What skills will I gain from the "Construction Management for Oil & Gas Projects" course?

Participants will develop construction scheduling, cost control, risk management, and quality assurance skills. These competencies support effective coordination of complex energy sector projects from mobilization through mechanical completion and handover.

Q4 What tools, methods, or standards are covered in the "Construction Management for Oil & Gas Projects" course?

The course covers Primavera P6 scheduling, earned value management, API and ASME standards, EPC contract structures, and QA/QC inspection checklists. These tools support structured planning and quality control throughout construction execution.

Q5 How is the "Construction Management for Oil & Gas Projects" course applied in real-world practice?

LEARN BOLD. LEAD BEYOND

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com



Participants apply scheduling, risk, and quality tools directly to refinery, pipeline, and offshore construction scenarios. As a result, they leave equipped to manage site execution, contractor coordination, and project closeout on live energy projects.

GENTEX[®]

TRAINING CENTER