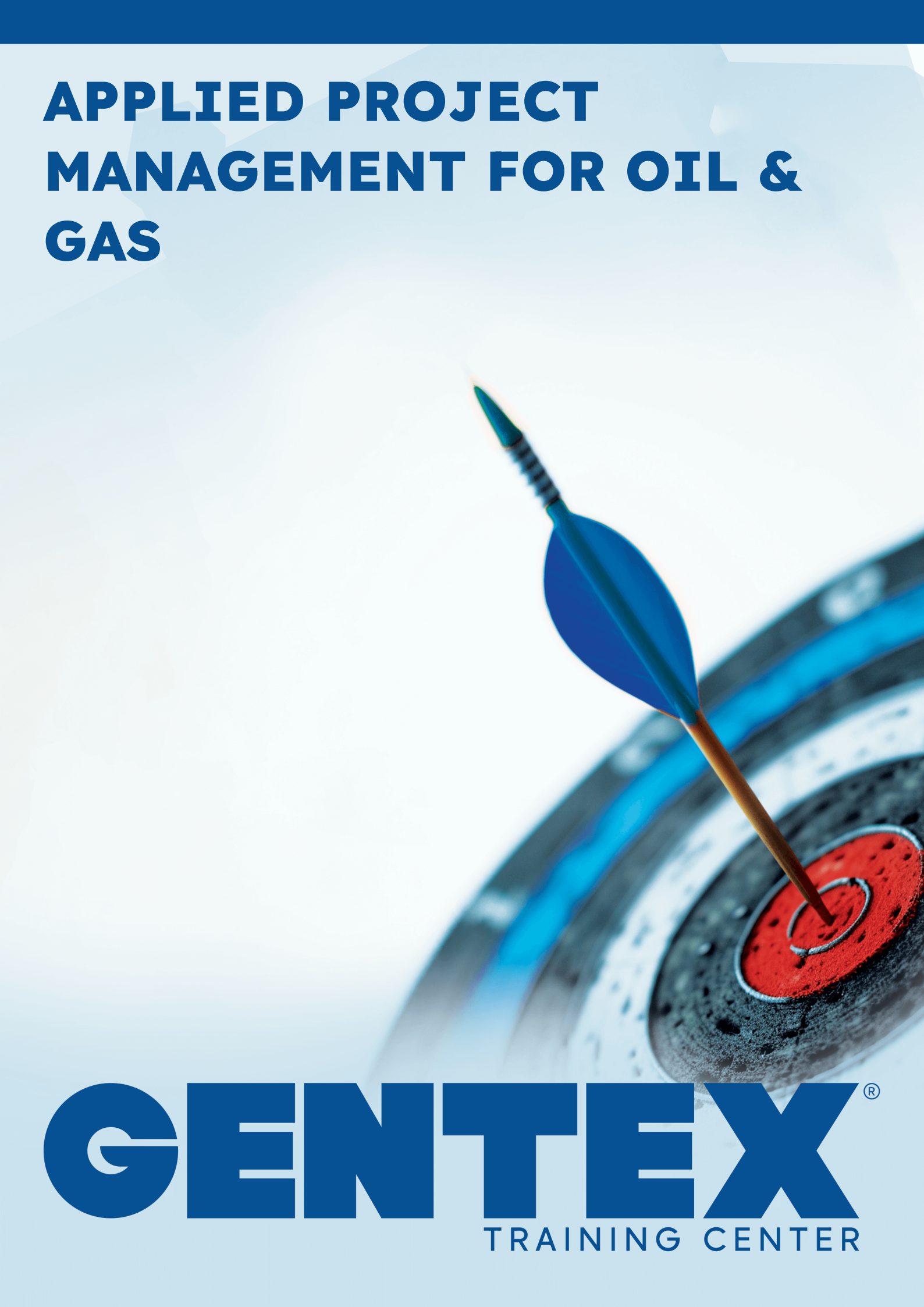
APPLIED PROJECT MANAGEMENT FOR OIL & GAS



GENTEX®
TRAINING CENTER

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

Introduction

Applied Project Management for Oil and Gas examines how project managers deliver upstream, midstream, and downstream projects under heavy technical, contractual, and safety constraints. This Training Course covers the oil and gas project life cycle, front-end engineering design, cost estimating classes, schedule development, contracting strategy, risk, and assurance. Participants study the PMBOK Guide performance domains applied to oil and gas, AACE International cost estimate classes 5 through 1 and the recommended practices, the FEL stage-gate model, the critical path method and probabilistic scheduling, earned value management with SPI, CPI and TCPI, Monte Carlo cost and schedule risk analysis, NORSOK and ISO 31000 risk practice, safety instrumented function concepts, the HSE management system and permit-to-work discipline, brownfield modification and shutdown planning, and benefits realisation. Furthermore, the programme connects method to field reality through case-based planning labs, risk workshops, and stage-gate review simulations. As a result, delegates leave able to run oil and gas projects with controls that match the asset.

Applied Project Management for Oil & Gas Course Objectives

- Apply the PMBOK Guide performance domains to oil and gas delivery.
- Interpret AACE International cost estimate classes 5 through 1.
- Apply the FEL stage-gate model and front-end loading discipline.
- Build integrated scope, schedule, cost, and resource baselines.
- Apply earned value management with SPI, CPI, and TCPI.
- Quantify cost and schedule risk with Monte Carlo analysis.
- Apply ISO 31000 and HSE management system requirements.
- Design contracting strategy, tender evaluation, and contract types.
- Plan brownfield modifications, shutdowns, and operational readiness.

GENTEX® TRAINING CENTER

- Govern stage gates, assurance, and benefits realisation.

Course Methodology

- Interactive workshops using real oil and gas project data.
- FEL stage-gate and estimate class assessment labs.
- Earned value and Monte Carlo risk exercises.
- Contracting strategy and shutdown planning workshops.
- Stage-gate review and assurance simulations.
- Action planning that converts each session into a workplace commitment.

Who Should Take This Course

- Project managers in oil and gas operators.
- Engineering, procurement, and construction contractors' staff.
- Cost engineers and estimators.
- Planning and scheduling engineers.
- Contracts and procurement specialists.
- HSE and assurance professionals.
- PMO analysts supporting capital projects.

Applied Project Management for Oil & Gas Course Outlines

Day 1: Oil and Gas Project Context

- Upstream, midstream, and downstream project characteristics.
- The project life cycle and the FEL stage-gate model.

- PMBOK Guide performance domains applied to oil and gas.
- Capital project governance and investment decision gates.
- Stakeholder landscape: partners, regulators, and communities.
- Common failures: compressed front-end loading and optimistic estimates.
- Building the project context pack.

Day 2: Estimates, Scope, and Baselining

- AACE International cost estimate classes 5 through 1.
- Scope definition, basis of estimate, and contingency methodology.
- Work breakdown structure and cost breakdown structure alignment.
- Schedule development, critical path, and probabilistic scheduling.
- Resource planning, camp, and logistics considerations.
- Scope change control and management of change.
- Building the estimate and baseline pack.

Day 3: Control, Earned Value, and Risk

- Earned value management: planned value, earned value, and actual cost.
- Schedule performance index, cost performance index, and TCPI.
- Progress measurement in construction and installation work.
- Monte Carlo cost and schedule risk analysis.
- ISO 31000 risk practice and the risk register with owners.
- Contingency derivation and management reserve discipline.
- Building the control and risk pack.

Day 4: Contracting, HSE, and Field Delivery

- Contracting strategy and the EPC, EPCM, and reimbursable models.
- Tender evaluation, bid clarification, and contract award.
- HSE management systems, permit-to-work, and safety cases.
- Brownfield modification and shutdown planning.
- Interface management between contractor packages.
- Construction, commissioning, and handover sequencing.
- Building the contracting and field delivery pack.

Day 5: Assurance, Handover, and Benefits

- Stage-gate assurance reviews and independent project reviews.
- Operational readiness and start-up assurance.
- Benefits realisation and production ramp-up measurement.
- Lessons learned and benchmark database practice.
- Reporting to partners, boards, and regulators.
- Preventing gaming: estimate padding and progress distortion.
- Personal action plan and continuous improvement.

Conclusion

By successfully completing Applied Project Management for Oil & Gas, participants will have acquired a practical command of front-end loading, estimate classification, integrated baselining, earned value control, quantitative risk analysis, contracting strategy, and field delivery assurance. They will know how to match control rigour to project stage, read SPI and CPI correctly, and quantify contingency rather than adding it as a flat percentage. In addition, the course prepares delegates to plan brownfield work and shutdowns without ignoring operational constraints. As a result, they return to work ready to deliver oil and gas projects with controls that match the asset. Gentex Training Center delivers this Training Course with a practical, standards-based approach.

GENTEX® TRAINING CENTER

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

FAQs for the Applied Project Management for Oil & Gas course

Q1 What is the "Applied Project Management for Oil & Gas" course about?

It is a five-day programme on delivering upstream, midstream, and downstream projects under heavy technical, contractual, and safety constraints. It covers the FEL stage-gate model, AACE International cost estimate classes, integrated baselining, earned value management, Monte Carlo risk analysis, contracting strategy, and brownfield and shutdown planning.

Q2 What are the key benefits of the "Applied Project Management for Oil & Gas" course?

Participants gain the ability to match control rigour to project stage, read SPI and CPI correctly, and quantify contingency rather than adding it as a flat percentage. They also learn to plan brownfield work and shutdowns without ignoring operational constraints.

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

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

Project context work with oil and gas life cycle application, FEL stage-gate modelling, PMBOK performance domain use, and capital project governance design, estimates and baselining with AACE estimate class application, basis of estimate construction, contingency methodology design, work and cost breakdown structure alignment, schedule development with critical path and probabilistic scheduling, and management of change control, control and risk with earned value interpretation, SPI, CPI and TCPI calculation, progress measurement design, Monte Carlo cost and schedule simulation, ISO 31000 risk practice, risk register design, and contingency and reserve derivation, and contracting, HSE and assurance with contracting strategy design across EPC, EPCM and reimbursable models, tender evaluation, HSE management system application, permit-to-work discipline, brownfield modification and shutdown planning, interface management, commissioning and handover sequencing, stage-gate assurance review delivery, operational readiness assessment, and benefits realisation measurement.

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

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

The course covers upstream, midstream and downstream project characteristics, the project life cycle and the FEL stage-gate model, PMBOK Guide performance domains applied to oil and gas, capital project governance and investment decision gates, the stakeholder landscape across partners, regulators and communities, common failures across compressed front-end loading and optimistic estimates, AACE International cost estimate classes 5 through 1, scope definition, basis of estimate and contingency methodology, work breakdown structure and cost breakdown structure alignment, schedule development, critical path and probabilistic scheduling, resource planning, camp and logistics considerations, scope change control and management of change, earned value management across planned value, earned value and actual cost, schedule performance index, cost performance index and TCPI, progress measurement in construction and installation work, Monte Carlo cost and schedule risk analysis, ISO 31000 risk practice and the risk register with owners, contingency derivation and management reserve discipline, contracting strategy and the EPC, EPCM and reimbursable models, tender evaluation, bid clarification and contract award, HSE management systems, permit-to-work and safety cases, brownfield modification and shutdown planning, interface management between contractor packages, construction, commissioning and handover sequencing, stage-gate assurance reviews and independent project reviews, operational readiness and start-up assurance, benefits realisation and production ramp-up measurement, lessons learned and benchmark database practice, reporting to partners, boards and regulators, and preventing gaming across estimate padding and progress distortion.

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

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

Delegates apply it through project context packs, life cycle maps, FEL stage-gate plans, investment decision papers, governance frameworks, decision rights matrices, estimate class assessments, basis of estimate documents, contingency methodologies, cost estimates, work breakdown structures, cost breakdown structures, network diagrams, duration estimates, critical path analyses, probabilistic schedules, resource plans, camp and logistics plans, scope change requests, management of change records, earned value reports, planned value registers, actual cost reports, SPI and CPI calculations, TCPI models, progress measurement plans, physical progress records, Monte Carlo cost simulations, Monte Carlo schedule simulations, confidence level analyses, risk registers, risk response plans, contingency drawdown records, management reserve requests, contracting strategies, tender evaluation matrices, bid clarification records, contract documents, HSE management system documents, permit-to-work procedures, safety case references, brownfield modification plans, shutdown plans, interface registers, construction and commissioning schedules, handover packs, stage-gate assurance reports, independent project review findings, operational readiness assessments, start-up assurance records, benefits realisation registers, production ramp-up reports, benchmark data submissions, partner and regulator reports, gaming risk assessments, and project improvement plans. They also use it to chair stage-gate reviews and to present capital project performance to partners, boards, and regulators.