ENGINEERING PROCUREMENT AND CONSTRUCTION (EPC) CONTRACTS FOR ENERGY INDUSTRY



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Introduction

Engineering Procurement and Construction (EPC) Contracts for the Energy Industry examines how lump-sum turnkey contracts are structured, tendered, and administered across oil, gas, and power projects. This Training Course covers scope definition, contractor selection, risk allocation, interface management, and completion mechanics. Participants study FIDIC Silver Book provisions, performance guarantees, delay liquidated damages, and take-over procedures. Furthermore, the programme connects contractual wording to site delivery through case studies and clause workshops. As a result, delegates leave able to manage EPC contracts from award to final acceptance.

Engineering Procurement and Construction (EPC) Contracts for Energy Industry Course Objectives

- Define EPC contracting and distinguish it from EPCM and design-build models.
- Structure lump-sum turnkey contracts for energy projects.
- Draft scope, employer's requirements, and technical schedules clearly.
- Allocate design, construction, and commissioning risk correctly.
- Apply FIDIC Silver Book and industry-specific EPC conditions.
- Set performance guarantees, liquidated damages, and delay damages.
- Manage interfaces between engineering, procurement, and construction packages.
- Control variations, change orders, and claims on EPC scope.
- Administer milestones, mechanical completion, and provisional acceptance.
- Manage final acceptance, defects liability, and contract closeout.

Course Methodology

- Interactive workshops using real EPC contract disputes and completions.

- Structured clause-by-clause analysis of FIDIC Silver Book conditions.
- Tendering simulation from ITT issue to award recommendation.
- Guided negotiation exercises on risk transfer and guarantees.
- Practical review of completion certificates and closeout files.
- Action planning that converts each session into a workplace commitment.

Who Should Take This Course

- Contract managers and commercial leads in energy firms.
- Project directors, managers, and engineering managers.
- Legal counsel and claims specialists.
- Procurement, tendering, and subcontracting personnel.
- Planning, cost control, and quantity surveying staff.
- Commissioning and construction managers.
- Compliance, insurance, and risk professionals.

Engineering Procurement and Construction (EPC) Contracts for Energy Industry Course Outlines

Day 1: EPC Contracting Fundamentals and Delivery Models

- Defining EPC, EPCM, design-build, and turnkey delivery models.
- When to choose EPC and when to split packages.
- Owner's obligations and contractor's single-point responsibility.
- Lump-sum turnkey pricing and price certainty trade-offs.

- FIDIC Silver Book, Yellow Book, and industry EPC forms.
- Contractor prequalification and selection criteria.
- Contracting strategy and approval governance.

Day 2: Scope, Employer's Requirements, and Technical Schedules

- Writing clear employer's requirements and performance specifications.
- Technical schedules, data sheets, and design basis documents.
- Interface points and battery limits between packages.
- Procurement obligations and long-lead item management.
- Subcontracting rules and nominated subcontractors.
- Local content, licensing, and technology transfer obligations.
- Scope change control from tender to execution.

Day 3: Risk Allocation, Guarantees, and Liability

- Design risk, fitness for purpose, and standard of care.
- Indemnities, knock-for-knock, and consequential loss exclusions.
- Limitation of liability, caps, and carve-outs.
- Performance guarantees, liquidated damages, and delay damages.
- Parent company guarantees and advance payment bonds.
- Insurance: CAR, marine cargo, third-party, and professional indemnity.
- Force majeure, change in law, and price escalation clauses.

Day 4: Execution, Completion, and Commissioning

- Milestones, progress measurement, and payment certification.

- Interface management between engineering, procurement, and construction.
- Quality assurance, inspection, and non-conformance handling.
- Site instructions, variation orders, and dayworks.
- Mechanical completion, pre-commissioning, and commissioning.
- Provisional acceptance, taking over, and defects liability periods.
- Claims documentation and time bar compliance.

Day 5: Closeout, Claims, and Dispute Avoidance

- Final acceptance, punch list, and as-built documentation.
- Final accounts, retention release, and warranty management.
- Claims preparation: delay analysis and quantum basics.
- Dispute adjudication boards and amicable settlement.
- Arbitration under ICC, LCIA, and DIAC rules.
- Lessons-learned reviews and contractor performance evaluation.
- Personal action plan and continuous improvement.

Conclusion

By successfully completing Engineering Procurement and Construction (EPC) Contracts for the Energy Industry, participants will have acquired a practical command of EPC contract structure, risk allocation, completion mechanics, and closeout. They will know how to interpret FIDIC Silver Book provisions, set guarantees and liquidated damages, and manage variations and claims with disciplined notice practice. In addition, the course prepares delegates to manage contractor performance and resolve disputes efficiently. As a result, they return to work ready to administer EPC contracts with confidence. Gentex Training Center delivers this Training Course with a practical, standards-based approach.

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FAQs for the Engineering Procurement and Construction (EPC) Contracts for Energy Industry course

Q1 What is the "Engineering Procurement and Construction (EPC) Contracts for the Energy Industry" course about?

It is a five-day programme that explains how lump-sum turnkey EPC contracts are structured, tendered, and administered in oil, gas, and power projects. It covers scope definition, risk allocation, guarantees, completion mechanics, claims, and closeout.

Q2 What are the key benefits of the "Engineering Procurement and Construction (EPC) Contracts for the Energy Industry" course?

Participants gain the ability to negotiate EPC terms that protect schedule and cost, spot risk transfer gaps before signature, and control variations before they escalate into claims. They also learn to manage completion and acceptance procedures so projects close out cleanly and warranties hold.

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Q3 What skills will I gain from the "Engineering Procurement and Construction (EPC) Contracts for the Energy Industry" course?

EPC contract structure and clause interpretation, risk allocation with guarantees and liability caps, completion and commissioning administration, and claims preparation with dispute avoidance management.

Q4 What tools, methods, or standards are covered in the "Engineering Procurement and Construction (EPC) Contracts for the Energy Industry" course?

The course covers FIDIC Silver Book and Yellow Book conditions, employer's requirements and technical schedules, liquidated damages and delay damages drafting, parent company guarantees and advance payment bonds, CAR and marine cargo insurance, mechanical completion and provisional acceptance procedures, dispute adjudication boards, and ICC, LCIA, and DIAC arbitration rules.

Q5 How is the "Engineering Procurement and Construction (EPC) Contracts for the Energy Industry" course applied in real-world practice?

Delegates apply it through ITT packages, tender evaluations, risk allocation reviews, interface matrices, variation orders, payment certificates, commissioning and acceptance procedures, claims files, and final accounts. They also use it to run lessons-learned reviews and to evaluate contractor performance for future EPC awards.

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