EPCIC PROJECT MANAGEMENT: MASTER ENGINEERING, PROCUREMENT, CONSTRUCTION & COMMISSIONING



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Introduction

EPCIC Project Management: Master Engineering, Procurement, Construction & Commissioning examines how complex engineering projects are planned and delivered end to end. This Training Course covers scope definition, engineering design control, procurement scheduling, construction sequencing, and commissioning readiness. Participants study PMBOK and PMI practice standards, front-end engineering design (FEED), interface management, and mechanical completion. Furthermore, the programme connects project controls to site reality through schedule reviews and readiness simulations. As a result, delegates leave able to lead EPCIC delivery with control over cost, schedule, and quality.

EPCIC Project Management: Master Engineering, Procurement, Construction & Commissioning Course Objectives

- Define EPCIC project phases and their delivery logic.
- Apply PMBOK knowledge areas and project lifecycle processes.
- Manage FEED, detailed design, and engineering deliverables.
- Build procurement schedules, vendor packages, and long-lead plans.
- Control construction sequencing, interfaces, and site coordination.
- Plan commissioning, pre-commissioning, and start-up readiness.
- Use WBS, CPM scheduling, and critical path analysis effectively.
- Apply earned value management for cost and schedule performance.
- Manage risk registers, contingency, and change control.
- Deliver project closeout with as-built documentation and lessons learned.

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Course Methodology

- Interactive workshops using real EPCIC project delivery cases.
- Structured schedule and critical path review exercises.
- Interface matrix workshops across engineering and construction.
- Readiness review simulations for commissioning and start-up.
- Guided application of earned value and progress measurement.
- Action planning that converts each session into a workplace commitment.

Who Should Take This Course

- Project directors, managers, and engineering managers.
- Planning and project controls engineers.
- Construction, site, and commissioning managers.
- Procurement and expediting specialists.
- Interface and package managers.
- Cost control and quantity surveying staff.
- Quality, HSE, and assurance professionals.

EPCIC Project Management: Master Engineering, Procurement, Construction & Commissioning Course Outlines

Day 1: EPCIC Project Fundamentals and Delivery Models

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- Defining EPCIC phases: FEED, detailed design, procurement, construction, commissioning.
- Delivery models: EPC, EPCM, EPCIC, and hybrid structures.
- PMBOK knowledge areas and process groups overview.
- Project charter, governance, and stage-gate approvals.
- Stakeholder mapping and communication planning.
- Contracting strategy linked to project delivery.
- Project management office (PMO) roles and reporting cadence.

Day 2: Engineering Management and Design Control

- FEED deliverables and design basis definition.
- Engineering document control and revision discipline.
- 3D model reviews, HAZID, and HAZOP participation.
- Interface management between disciplines and vendors.
- Design change control and scope freeze milestones.
- Vendor data, approvals, and documentation deliverables.
- Constructability and operability reviews.

Day 3: Procurement, Expediting, and Supply Chain Control

- Procurement planning aligned to the project schedule.
- Criticality rating and long-lead item identification.
- Vendor prequalification, bid evaluation, and award.
- Expediting, inspection, and logistics control.
- Materials management, preservation, and warehouse control.
- Subcontracting strategy and package definition.

- Supplier performance and delivery risk management.

Day 4: Construction, Commissioning, and Start-Up

- Construction sequencing and work front planning.
- Site organization, permits, and temporary facilities.
- Progress measurement, earned value, and cost control.
- Interface coordination during construction and hook-up.
- Pre-commissioning, commissioning, and systems turnover.
- Start-up readiness reviews and punch list management.
- HSE, quality, and permit-to-work discipline on site.

Day 5: Project Controls, Risk, and Closeout

- WBS design and CPM scheduling with critical path analysis.
- Baseline management, float analysis, and delay capture.
- Risk registers, contingency, and mitigation planning.
- Change control boards and variation management.
- Reporting dashboards and stakeholder updates.
- Final acceptance, as-built documentation, and handover.
- Lessons-learned reviews and personal action plan.

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Conclusion

By successfully completing EPCIC Project Management: Master Engineering, Procurement, Construction & Commissioning, participants will have acquired a practical command of project lifecycle planning, engineering control, procurement scheduling, and commissioning readiness. They will know how to build work breakdown structures, run critical path analysis, and apply earned value to track performance. In addition, the course prepares delegates to manage interfaces and risks across the full delivery chain. As a result, they return to work ready to lead EPCIC projects with confidence. Gentex Training Center delivers this Training Course with a practical, standards-based approach.

FAQs for the EPCIC Project Management: Master Engineering, Procurement, Construction & Commissioning course

Q1 What is the "EPCIC Project Management" course about?

It is a five-day programme that explains how to plan and deliver engineering, procurement, construction, installation, and commissioning projects end to end. It covers FEED and design control, procurement scheduling, construction sequencing, commissioning readiness, project controls, and closeout.

Q2 What are the key benefits of the "EPCIC Project Management" course?

Participants gain the ability to keep complex projects on schedule and within budget by controlling interfaces, risk, and change early. They also learn to build reliable schedules, measure progress with earned value, and reach commissioning and start-up with fewer surprises and rework.

Q3 What skills will I gain from the "EPCIC Project Management" course?

EPCIC project lifecycle planning with PMBOK practices, engineering and design control with interface management, procurement scheduling with expediting control, and construction and commissioning readiness with earned value performance tracking.

Q4 What tools, methods, or standards are covered in the "EPCIC Project Management" course?

The course covers PMBOK knowledge areas and process groups, front-end engineering design (FEED), work breakdown structures (WBS), critical path method (CPM) scheduling, earned value management (EVM), risk registers and contingency planning, interface matrices, HAZID and HAZOP reviews, constructability reviews, punch lists, and stage-gate governance models.

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Q5 How is the "EPCIC Project Management" course applied in real-world practice?

Delegates apply it through project charters, WBS and schedule builds, interface matrices, procurement and expediting plans, progress and earned value reports, change control boards, commissioning readiness reviews, punch lists, and handover documentation. They also use it to run project risk workshops and lessons-learned reviews.