PR & Media · PR405

EPC / LSTK Project Management Fundamentals

Duration	Category	Ref
1 Week	**PR & Media**	**PR405**
Language	Certificate	
English	**Certificate of attendance**	

Introduction

EPC (Engineering, Procurement, Construction) and LSTK (Lump Sum Turnkey) projects are complex, high-value, and schedule-driven project delivery systems widely used in industries such as oil & gas, power generation, infrastructure, petrochemicals, and industrial construction.

This course provides a structured and clear understanding of EPC/LSTK project fundamentals, focusing on how such projects are organized, executed, and controlled from initiation to completion. It is designed to build strong conceptual awareness of project phases, stakeholder roles, engineering-procurement-construction integration, and overall project lifecycle management.

The course emphasizes understanding “how EPC/LSTK projects work” rather than technical execution or software tools.

Course Objectives

By the end of this course, participants will be able to:

- Understand EPC and LSTK project delivery models
- Identify key phases of EPC project lifecycle
- Understand roles and responsibilities in EPC projects
- Recognize how engineering, procurement, and construction are integrated
- Understand project planning and execution fundamentals
- Gain awareness of contract structure and project obligations
- Understand basic project control concepts (time, cost, quality)
- Recognize coordination requirements across project functions
- Understand risks and challenges in EPC/LSTK projects
- Develop overall awareness of project delivery processes

Organizational Impact

This course helps organizations to:

- Improve understanding of EPC/LSTK project structure

- Enhance coordination between departments
- Strengthen project communication and alignment
- Reduce execution misunderstandings across teams
- Improve awareness of project lifecycle responsibilities
- Support better decision-making at project level
- Strengthen project governance understanding
- Improve cross-functional collaboration
- Reduce project execution gaps
- Build consistent project management awareness

Personal Impact

Participants will:

- Gain strong foundational knowledge of EPC/LSTK projects
- Understand how large-scale projects are executed
- Improve communication across engineering, procurement, and construction teams
- Enhance awareness of project roles and responsibilities
- Strengthen career development in project environments
- Improve understanding of project terminology
- Increase confidence in EPC project discussions
- Develop structured thinking in project environments
- Improve coordination skills
- Build foundation for advanced project management roles

Target Audience

- Project Engineers
- Project Coordinators
- Site Engineers
- Planning & Scheduling Staff
- Procurement & Material Staff
- Contract Administrators
- Construction Supervisors
- Engineering Staff
- Operations & Maintenance Personnel
- Fresh engineers entering EPC industry
- Anyone involved in EPC/LSTK projects

Course Outline

Day 1

Introduction to EPC & LSTK Projects

- Overview of EPC project delivery model
- Definition and structure of LSTK contracts
- Differences: EPC vs EPCM vs traditional contracting
- Key industries using EPC/LSTK
- Project lifecycle overview
- Key stakeholders in EPC projects
- Basic roles of client, contractor, consultant

Day 2

EPC Project Lifecycle & Organization

- Project initiation and feasibility stage
- Engineering phase overview
- Procurement phase overview
- Construction phase overview
- Commissioning and handover overview
- Project organizational structure
- Roles and responsibilities in EPC projects
- Communication flow in project teams

Day 3

Engineering, Procurement & Construction Integration

- Engineering deliverables overview
- Procurement process in EPC projects
- Construction execution overview
- Interface between engineering, procurement, and construction
- Coordination challenges in EPC projects
- Material flow from design to site
- Importance of integration in project success

Day 4

Project Planning, Control & Contract Basics

- Introduction to project planning concepts
- Work Breakdown Structure (WBS) overview
- Project scheduling basics (CPM concept)
- Progress monitoring and reporting basics
- Cost, time, and quality control overview
- Introduction to EPC contracts
- LSTK contract characteristics
- Change orders and variation overview
- Basic risk awareness in projects

Day 5

Project Execution, Risks & Closeout

- Project execution coordination overview
- Site coordination fundamentals
- Project communication and reporting
- Risk types in EPC projects
- Common project challenges and delays
- Quality and HSE awareness in projects
- Commissioning and handover overview
- Project closeout fundamentals
- Lessons learned and continuous improvement

Ask us for a date for this course

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