Special Courses · SC402

EPC / LSTK Project Management

Duration	Category	Ref
1 Week	**Special Courses**	**SC402**
Language	Certificate	
English	**Certificate of attendance**	

Introduction

Engineering, Procurement, and Construction (EPC) / Lump Sum Turnkey (LSTK) projects represent one of the most widely used project delivery methods in industrial, infrastructure, energy, oil & gas, petrochemical, and construction sectors. These projects involve integrated management of engineering design, procurement activities, construction execution, commissioning, and final project handover under a single contractual responsibility.

This informative training program provides participants with a comprehensive understanding of EPC/LSTK project environments, project phases, contractual structures, project coordination practices, procurement systems, planning principles, construction management processes, and project closeout requirements. The course focuses on enhancing participants' understanding of the overall EPC/LSTK framework, industry terminology, management methodologies, and international best practices used in large-scale projects.

The program is designed to provide broad professional knowledge and organizational awareness of EPC/LSTK project management processes rather than hands-on technical applications.

Course Objectives

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

- Understand the structure and characteristics of EPC/LSTK projects
- Identify the major phases of EPC project execution
- Recognize the roles and responsibilities within EPC organizations
- Understand project planning and scheduling concepts
- Gain awareness of procurement and supply chain processes
- Understand the basics of contract and claims management
- Identify key construction management principles
- Understand project monitoring and reporting systems
- Recognize risk, quality, and HSE considerations in EPC projects
- Understand commissioning, startup, and project closeout processes

Organizational Impact

This program will support organizations in:

- Enhancing staff understanding of EPC/LSTK project environments
- Improving coordination and communication among project teams
- Increasing awareness of project lifecycle requirements
- Strengthening understanding of project governance structures
- Supporting more effective project monitoring and reporting
- Improving awareness of procurement and contractual processes
- Enhancing understanding of risk and quality management practices
- Supporting organizational project management capabilities
- Promoting alignment between departments involved in EPC projects
- Increasing overall project management awareness across the organization

Personal Impact

Participants will benefit by:

- Expanding professional knowledge of EPC/LSTK project management
- Improving understanding of project coordination processes
- Enhancing communication within project environments
- Increasing awareness of project planning and execution activities
- Understanding the relationship between engineering, procurement, and construction functions
- Strengthening knowledge of project terminology and methodologies
- Improving professional confidence in EPC project environments
- Supporting future career growth in project-related positions
- Enhancing organizational and reporting awareness
- Developing broader understanding of international project practices

Target Audience

This course is suitable for:

- Project Coordinators
- Project Engineers
- Engineers involved in EPC projects
- Planning & Scheduling Personnel
- Procurement Personnel
- Contract & Commercial Staff
- Construction Personnel
- Technical Administrators
- Project Support Staff
- Operations Personnel
- Supervisors and Team Leaders
- Personnel transitioning into EPC/LSTK project environments
- Professionals seeking general knowledge of EPC project management

Course outlines

Day 1

Introduction to EPC / LSTK Projects

- Introduction to EPC and LSTK concepts
- EPC project lifecycle overview

- Differences between EPC, EPCM, and traditional projects
- Roles and responsibilities within EPC projects
- Project organizational structures
- Introduction to project management fundamentals
- Key challenges in EPC/LSTK environments

Day 2

Project Planning & Scheduling

- Fundamentals of project planning
- Work Breakdown Structure (WBS)
- Project scheduling concepts
- Critical Path Method (CPM)
- Progress monitoring and reporting
- Introduction to project control systems
- Overview of scheduling software and reporting tools

Day 3

Procurement & Contract Management

- Procurement processes in EPC projects
- Vendor and supplier coordination
- Material and logistics management
- Overview of contract management
- Contractual responsibilities and obligations
- Introduction to claims and variation orders
- Importance of project documentation

Day 4

Construction, Risk & Quality Management

- Construction phase overview
- Site coordination and construction management
- Risk management concepts in EPC projects
- Introduction to quality management systems
- QA/QC awareness in EPC projects
- Health, Safety & Environmental (HSE) considerations
- Communication and coordination during project execution

Day 5

Commissioning, Handover & Project Closeout

- Introduction to commissioning and startup activities
- Mechanical completion concepts
- Project handover procedures
- As-built documentation and final reporting
- Project closeout processes
- Lessons learned and project evaluation
- Future trends and best practices in EPC/LSTK project management

Ask us for a date for this course

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