Security & Law Enforcement · SL406

Engineering Coordination in EPC Projects

Duration	Category	Ref
1 Week	**Security & Law Enforcement**	**SL406**
Language	**Certificate**	
English	**Certificate of attendance**	

Introduction

Engineering coordination is a core function in EPC (Engineering, Procurement, Construction) projects, ensuring that all engineering disciplines, vendors, procurement activities, and construction requirements are properly aligned throughout the project lifecycle.

In EPC/LSTK environments, engineering coordination acts as the central link between design, procurement, and construction teams. It ensures that engineering deliverables are issued on time, technically consistent, constructible, and aligned with project specifications, contract requirements, and site conditions.

This course provides participants with a structured understanding of engineering coordination principles, workflows, interfaces, documentation control, technical communication, and change management within EPC projects.

Course Objectives

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

- Understand the role of engineering coordination in EPC projects
- Identify engineering workflows and deliverable cycles
- Understand discipline coordination (civil, mechanical, electrical, etc.)
- Manage engineering interfaces with procurement and construction
- Understand vendor document and drawing review processes
- Recognize engineering change control procedures
- Improve technical communication and documentation flow
- Understand coordination challenges in EPC execution
- Gain awareness of engineering quality and compliance requirements
- Understand the relationship between engineering and project controls

Organizational Impact

This course helps organizations to:

- Improve coordination between engineering disciplines

- Reduce delays caused by design inconsistencies
- Enhance communication between engineering, procurement, and construction
- Improve accuracy and timeliness of engineering deliverables
- Reduce rework and site conflicts
- Strengthen project documentation control
- Improve vendor and subcontractor coordination
- Support better project execution efficiency
- Enhance compliance with contract and technical requirements
- Improve overall project delivery performance

Personal Impact

Participants will:

- Gain clear understanding of engineering coordination processes
- Improve technical communication skills
- Strengthen understanding of EPC project workflows
- Enhance ability to manage engineering interfaces
- Develop awareness of project documentation systems
- Improve problem-solving in engineering conflicts
- Gain exposure to real EPC coordination challenges
- Strengthen career development in project engineering roles
- Improve confidence in multidisciplinary coordination
- Build foundation for senior project engineering roles

Target Audience

- Project Engineers
- Engineering Coordinators
- Discipline Engineers (Civil, Mechanical, Electrical, Instrumentation)
- Project Coordinators
- Construction Engineers
- Procurement Engineers
- Design Engineers
- Site Engineers
- Technical Office Engineers
- EPC Project Support Staff
- Professionals working in EPC/LSTK projects

Course Outline

Day 1

Introduction to Engineering Coordination in EPC Projects

- Overview of EPC engineering function
- Role of engineering in project lifecycle
- Importance of engineering coordination
- Key engineering disciplines and responsibilities
- Engineering deliverables overview
- Engineering workflow in EPC projects
- Interface between engineering, procurement, and construction

Day 2

Engineering Deliverables & Discipline Coordination

- Types of engineering deliverables (drawings, specs, datasheets)
- Engineering document flow and approval cycle
- Coordination between disciplines
- Design integration challenges
- Engineering deliverable tracking systems
- Internal engineering review process
- Ensuring design consistency across disciplines

Day 3

Vendor Coordination & Technical Documentation

- Vendor document review process
- Technical evaluation of vendor submissions
- Coordination with procurement team
- Engineering queries (TQs) and clarifications
- Vendor drawing approval cycle
- Managing long lead item engineering
- Handling technical deviations and approvals

Day 4

Engineering Change Management & Interface Control

- Engineering change control process
- Site-driven design changes
- Interface management with construction teams
- Handling design revisions and updates
- Managing conflicts between engineering and site conditions
- Coordination with project controls and planning teams
- Documentation of changes and approvals

Day 5

Communication, Quality & Engineering Closeout

- Engineering communication protocols
- Technical correspondence and reporting
- Engineering quality assurance principles
- Document control systems (EDMS overview)
- As-built documentation process
- Engineering closeout activities
- Lessons learned in engineering coordination
- Best practices in EPC engineering coordination

Ask us for a date for this course
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