



Structural Engineering Essentials for Project Teams Course

16 – 20 November 2026
Seoul

Structural Engineering Essentials for Project Teams Course

Ref: 564_143579 **Date:** 16 – 20 November 2026 **Location:** Seoul **Fees:** 12000 Euro

Overview

Structural Engineering Essentials for Project Teams Course is a five-day foundation course for architects, project and construction managers, quantity surveyors, facilities teams, and technical coordinators who leave with a Structural Coordination Review Pack. Participants connect structural systems, gravity and lateral loads, load paths, member behavior, drawing literacy, interfaces, change impacts, and warning signs. The course turns unfamiliar structural information into focused review questions and escalation decisions. Agile Leaders Training Center presents structural engineering essentials through project coordination artifacts.

Who Should Attend

- Teams responsible for architectural, services, and structural interface coordination
- Functions managing project scope, schedule, cost, change, and technical risk
- Personnel reading drawings, specifications, schedules, and site information
- Groups coordinating construction methods, temporary conditions, openings, and equipment loads
- Asset teams recognizing structural warning signs and requesting specialist review

The course assumes participants can read basic project drawings and communicate across disciplines, and it leaves out structural calculations, member sizing, connection design, design approval, and replacement of qualified engineering judgment.

Departments and Industries

The course supports departments and industries that coordinate structural information, changes, interfaces, and project decisions.

- Architecture, project management, construction management, and quantity surveying
- Facilities, maintenance, asset management, and capital projects
- Commercial buildings, industrial facilities, utilities, and transport projects
- Healthcare estates, education campuses, logistics facilities, and property portfolios
- Design coordination, technical offices, procurement, and site supervision

Learning Objectives

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



- Analyze structural systems, load types, and load paths conceptually
- Compare the behavior and uses of common structural materials and members
- Use structural drawings, schedules, details, and terminology during coordination
- Evaluate interfaces, openings, changes, sequence, and temporary-condition risks
- Diagnose warning signs and frame questions for structural engineers
- Build a Structural Coordination Review Pack

Course Agenda

Day 1: Structural Roles and Load Paths

- Structural Engineer Role and Responsibility Boundary Map
- Gravity, Wind, and Lateral Load Classification Sheet
- Force, Moment, Stress, and Deflection Concept Cards
- Vertical and Lateral Load-Path Sketching Method
- Stability, Support, and Restraint Question Checklist

Day 2: Systems, Members, and Materials

- Beam, Column, Slab, Wall, Brace, and Foundation Function Map
- Frame, Wall, Truss, and Diaphragm System Comparison Matrix
- Concrete, Steel, Masonry, and Timber Behavior Guide
- Span, Depth, Grid, and Structural Form Tradeoff Table
- Serviceability and Movement Observation Checklist

Day 3: Structural Drawing Literacy

- Structural Drawing Set Reading Sequence
- Grid, Level, Datum, Symbol, and Annotation Reference Sheet
- Plan, Section, Elevation, and Detail Cross-Reference Method
- Member Mark, Schedule, Note, and Specification Trace
- Drawing Discrepancy and Information Request Log

Day 4: Coordination and Risk Recognition

- Architecture, Services, and Structure Interface Matrix
- Opening, Penetration, Equipment, and Support Change Screen
- Construction Sequence and Temporary-Condition Review Prompts
- Crack, Deflection, Corrosion, and Movement Warning-Sign Card
- Structural Question, Escalation, and Decision Record

Day 5: Structural Coordination Practice

- Exercise: Trace Gravity and Lateral Load Paths
- Exercise: Compare Systems, Members, and Material Behavior
- Exercise: Navigate Drawings and Resolve Cross-References
- Exercise: Screen Changes, Interfaces, and Warning Signs
- Capstone Exercise: Structural Coordination Review Pack

Practical Exercises

The course uses suggested activities to turn structural concepts into disciplined project coordination.

- Suggested activity: classify representative loads, sketch their path through a building, and record questions about stability, support, and restraint.
- Suggested activity: compare concrete, steel, masonry, and timber systems for span, movement, interfaces, and coordination implications without performing design calculations.
- Suggested activity: follow grids, levels, marks, schedules, sections, and details across a drawing set and log missing or conflicting information.
- Suggested activity: combine load-path sketches, drawing findings, change screens, warning signs, questions, escalations, and decisions in a Structural Coordination Review Pack.

FAQs

Who suits the structural engineering essentials course and what does it assume?

It suits non-structural project professionals who coordinate drawings, changes, construction, assets, or technical decisions, and assumes they can read basic project information and work across disciplines.

How do structural engineering essentials differ from structural design training?

Structural engineering essentials build conceptual literacy, drawing navigation, coordination, risk recognition, and communication, while structural design training develops calculations, analysis, member sizing, and code-based design competence.

What is a load path in structural engineering?

A load path is the connected route through which gravity or lateral actions pass from slabs, roofs, and other sources through members and supports to the foundations and ground.

How can project teams recognize a structural coordination risk?

Project teams can screen changes to loads, openings, supports, geometry, sequence, temporary conditions, interfaces, and observed behavior, then refer uncertain or consequential items to the structural engineer.



What belongs in a Structural Coordination Review Pack?

The pack records system and load-path sketches, drawing cross-references, interface checks, change screens, warning signs, information gaps, questions, responsible specialists, escalations, and decisions.

Conclusion

Participants take back a Structural Coordination Review Pack linking structural concepts, drawings, interfaces, changes, warning signs, and specialist questions. It changes vague structural concerns into a traceable coordination and escalation process. The pack supports project decisions without authorizing calculations, structural design, approval, or substitution for qualified engineering judgment.