



Consulting and Training | Reach New Heights

Course Name

Constructability & Buildability in Practice

Sector Name

Civil Engineering

Document Type

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Constructability & Buildability in Practice

Course Introduction

A design can be technically correct and still be difficult, inefficient, or unnecessarily risky to build. Restricted access, unrealistic sequencing, conflicting interfaces, tight tolerances, temporary works requirements, equipment limitations, and insufficient consideration of actual site conditions often become visible only after construction begins. By that stage, resolving them can lead to redesigning, rework, delays, additional cost, and disruption to surrounding activities.

Boost Consulting & Training has designed this course to develop the ability to review engineering designs through the eyes of construction before problems reach the site. Participants will learn how to challenge design assumptions, examine construction methods and sequences, identify buildability constraints, evaluate multidisciplinary interfaces, consider temporary conditions, and recommend practical improvements without compromising the intended engineering performance.

The main concept of this course is to bring construction knowledge into engineering decisions early enough to transform technically acceptable designs into solutions that can be built safely, efficiently, and with fewer field complications.

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Target Audience

- ✓ Civil and structural engineers
- ✓ Design and technical office engineers
- ✓ Construction and project engineers
- ✓ Engineering consultants and coordination professionals

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Learning Objectives

- ✓ Distinguish constructability and buildability considerations from conventional design review.
- ✓ Identify design features that may create difficulties during construction.
- ✓ Evaluate access, space, equipment, workforce, and site constraints before execution.
- ✓ Review construction sequences and dependencies from an engineering perspective.
- ✓ Assess tolerances and interfaces between civil, structural, architectural, and building services works.
- ✓ Incorporate temporary works and temporary construction conditions into constructability reviews.
- ✓ Develop practical design improvements that simplify execution while maintaining technical intent.
- ✓ Conduct structured constructability reviews at appropriate stages of project development.

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Course Outline

✓ DAY 1

Viewing Design Through a Construction Lens

Translating Design into Construction Reality

- ✓ Examining the gap between engineering design intent and practical site execution
- ✓ Identifying design decisions that influence construction methods, resources, access, and sequence
- ✓ Recognizing constructability issues before they develop into field problems

Finding Buildability Constraints Early

- ✓ Reviewing geometry, dimensions, layout, working space, and physical site limitations
- ✓ Considering available plants, equipment, materials, workforce, and construction methods
- ✓ Completing an Early Constructability Scan of a selected design package

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Course Outline

✓ DAY 2

Testing How the Work Will Be Built

Engineering the Construction Sequence

- ✓ Breaking the design into logical construction stages and executable work areas
- ✓ Identifying dependencies between activities and elements that control the sequence
- ✓ Detecting design conditions that create unnecessary complexity during execution

Access, Logistics and Installation Requirements

- ✓ Evaluating movement routes, lifting access, working zones, storage, and installation space
- ✓ Considering equipment reach, material handling, and restricted construction areas
- ✓ Developing a Buildability Sequence Plan for a constrained construction scenario

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Course Outline

✓ DAY 3

Managing Interfaces and Tolerances

Constructability Across Disciplines

- ✓ Reviewing interfaces between structural, civil, architectural, and building-services requirements
- ✓ Identifying design conflicts that may not appear as conventional geometric clashes
- ✓ Coordinating openings, penetrations, embeds, supports, levels, and shared construction zones

Design for Real Construction Tolerances

- ✓ Understanding how dimensional variation accumulates across connected elements
- ✓ Identifying interfaces where unrealistic tolerances can create installation problems
- ✓ Completing a Tolerance & Interface Challenge using interconnected construction elements

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Course Outline

✓ DAY 4

Designing for Temporary Construction Conditions

Temporary Works in Constructability Decisions

- ✓ Identifying where permanent works depend on temporary support, access, restraint, or working platforms
- ✓ Considering formwork, falsework, shoring, propping, temporary stability, and excavation support
- ✓ Integrating temporary works requirements into permanent-design discussions early

Managing the Structure During Construction

- ✓ Examining incomplete structural systems and changing load paths during different construction stages
- ✓ Considering temporary loads arising from equipment, materials, lifting, and construction operations
- ✓ Conducting a Construction-Stage Review for a structure under temporary conditions

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Course Outline

✓ DAY 5

Improving Design Before It Reaches the Site

Developing Buildable Design Improvements

- ✓ Simplifying details and interfaces without compromising engineering performance
- ✓ Comparing alternative solutions according to execution complexity, repetition, access, and site conditions
- ✓ Prioritizing recommendations that provide meaningful construction value

Running an Effective Constructability Review

- ✓ Selecting the appropriate project stages and disciplines for formal constructability reviews
- ✓ Converting observations into clear, technically justified design recommendations
- ✓ Conducting a Constructability Review Workshop on an integrated project case

Constructability & Buildability in Practice

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 7, 2026	Dec. 11, 2026	5 days	4250.00 \$	UAE , Dubai
Feb. 1, 2027	Feb. 5, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
April 26, 2027	April 30, 2027	5 days	4950.00 \$	England , London
Aug. 2, 2027	Aug. 6, 2027	5 days	4250.00 \$	UAE , Dubai

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