



Consulting and Training | Reach New Heights

Course Name

Digital Site Engineering & Construction Control

Sector Name

Civil Engineering

Document Type

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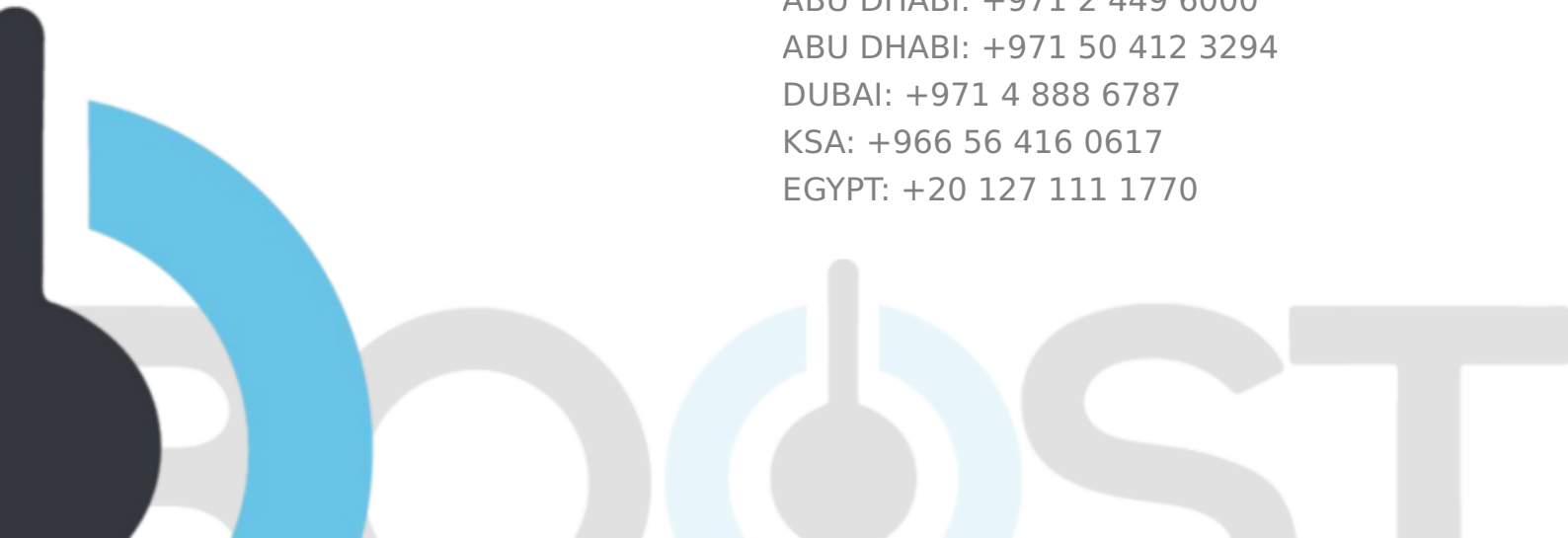
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Digital Site Engineering & Construction Control

Course Introduction

Construction sites generate a constant flow of information—drawings, inspections, progress updates, technical queries, photographs, approvals, measurements, and field records. When this information is fragmented across paper forms, spreadsheets, messages, and disconnected systems, engineers can struggle to maintain a reliable picture of what is happening on site.

Digitalization creates an opportunity to improve control, but simply introducing more applications does not automatically produce better engineering decisions.

Boost Consulting & Training has designed this course to show how digital tools can strengthen day-to-day site engineering and construction control. Participants will explore practical ways to capture field information, track physical progress, manage drawings and technical records, support inspections, document site conditions, and create reliable links between field activities and project information. The emphasis is on selecting and using digital practices according to site needs rather than focusing on any single software platform.

The main concept of this course is to create a connected digital field environment where accurate site information reaches the right

people at the right time and supports faster, better-controlled construction decisions.

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Digital Site Engineering & Construction Control

Target Audience

- ✓ Site and civil engineers
- ✓ Construction and project engineers
- ✓ Technical office and field coordination engineers
- ✓ Construction supervision professionals

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Learning Objectives

- ✓ Identify construction activities where digital tools can improve site engineering and control.
- ✓ Establish reliable digital workflows for collecting and managing field information.
- ✓ Improve access to current drawings, specifications, and technical documentation on site.
- ✓ Apply digital methods to inspections, observations, progress verification, and field reporting.
- ✓ Organize photographic and location-based site records for effective technical follow-up.
- ✓ Use field data to identify deviations, constraints, and emerging construction issues.
- ✓ Improve coordination between site teams, technical offices, consultants, and project stakeholders.
- ✓ Develop a practical digital site-control approach suited to construction operations.

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Course Outline

✓ DAY 1

Building the Digital Site Environment

Mapping Information Across the Construction Site

- ✓ Identifying the information generated during daily construction activities and technical supervision
- ✓ Mapping information movement between field teams, technical offices, consultants, and other project functions
- ✓ Detecting duplicated, delayed, incomplete, and disconnected information within existing site processes

Designing Practical Digital Field Workflows

- ✓ Matching digital workflows to inspections, technical queries, site observations, approvals, and daily activities
- ✓ Establishing clear ownership, status, and traceability for field information
- ✓ Creating a Digital Site Workflow Map for a realistic construction project

Digital Site Engineering & Construction Control

Course Outline

✓ DAY 2

Controlling Technical Information in the Field

Managing Drawings and Site Documentation

- ✓ Maintaining access to current approved drawings, specifications, revisions, and technical instructions
- ✓ Reducing construction risks associated with obsolete or uncontrolled project information
- ✓ Connecting field observations with the relevant drawing, location, element, and activity

Creating Traceable Digital Site Records

- ✓ Structuring photographs, annotations, measurements, comments, and supporting evidence
- ✓ Applying location, date, activity, and status references to improve information retrieval
- ✓ Completing a Digital Site Record Challenge using fragmented field information



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Course Outline

✓ DAY 3

Digitizing Inspection and Field Verification

Digital Inspection in Construction Operations

- ✓ Converting inspection activities into structured digital field processes
- ✓ Capturing findings, evidence, responsibilities, and follow-up requirements at the point of inspection
- ✓ Linking inspection information with specific construction elements and work locations

Closing the Follow-Up Loop

- ✓ Tracking observations, corrective actions, reinspection, and closure through digital records
- ✓ Identifying recurring field issues through accumulated inspection information
- ✓ Running a Digital Inspection & Closure Simulation from initial observation to verified completion

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Course Outline

✓ DAY 4

Digital Progress & Site Performance Control

Verifying Physical Progress

- ✓ Connecting reported progress with measurable field evidence and completed quantities
- ✓ Using photographs, mobile field records, location information, and digital measurement methods
- ✓ Detecting differences between reported status and actual construction progress

Reading the Site Through Data

- ✓ Organizing field information to reveal delays, unresolved issues, repeated constraints, and areas requiring attention
- ✓ Using practical dashboards and visual indicators without overwhelming teams with unnecessary data
- ✓ Completing a Site Performance Control Exercise using live-style construction information



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Course Outline

✓ DAY 5

Creating Connected Construction Control

Connecting Field and Project Decisions

- ✓ Integrating site information with technical coordination, planning, quality, and management decisions
- ✓ Establishing escalation routes for information requiring immediate engineering or project attention
- ✓ Maintaining traceability from field evidence to decision, action, and closure

Designing the Digital Site Control System

- ✓ Selecting digital practices according to project scale, field requirements, team capability, and information needs
- ✓ Establishing practical standards for data quality, consistency, access, and field adoption
- ✓ Developing a Digital Site Engineering & Construction Control Blueprint for workplace implementation



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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 7, 2026	Dec. 11, 2026	5 days	4250.00 \$	UAE , Dubai
Jan. 31, 2027	Feb. 4, 2027	5 days	4250.00 \$	Jordan , Amman
June 7, 2027	June 11, 2027	5 days	5950.00 \$	USA , New York
Aug. 2, 2027	Aug. 6, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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