JUPITER PRIME

Consulting • Training • Advisory

جوبيتر برايم للاستشارات والتدريب

COURSE BROCHURE

Construction Site Quality Control and Inspection Training Course

jupiterprime.uk

info@jupiterprime.uk

Registered in the United Kingdom and Saudi Arabia

Construction Site Quality Control and Inspection Training Course

Construction Site Quality Control and Inspection is a 1-week training course for site QA/QC engineers, inspectors and construction supervisors, who leave with an Inspection and Test Plan for one package of civil or building works. Rework, failed handovers and defects found after concrete is poured cost far more than checks made at the right moment. Jupiter Prime Training offers this course on construction site quality control and inspection.

Why Construction Site Quality Control and Inspection Matters Now

Three groups shape site quality today: clients' engineers who expect documented evidence before each element is covered up, specialist subcontractors whose workmanship decides most outcomes, and testing laboratories whose results arrive days after placement. A site that inspects at agreed hold points, samples correctly and closes non-conformances quickly hands over with a short defects list; one that inspects late pays for breaking out and rebuilding. The course draws on the testing and defects provisions of the FIDIC conditions of contract and on the concrete acceptance criteria of ACI 318.

Who Gains Most from Construction Site Quality Control and Inspection

- Engineers who prepare quality documents and witness inspections for a works package
- Inspectors who check setting out, reinforcement, formwork and finishes against drawings
- Supervisors who sequence trades and release work for the next activity
- Coordinators who book laboratory tests and track material approvals

A site team that sends its QA/QC engineer, inspector and supervisor together gains most, because inspection timing is then agreed by those who run it.

Construction Site Quality Control and Inspection Capabilities

Participants turn specifications and drawings into planned inspections, witnessed tests and traceable records.

- Design an Inspection and Test Plan with hold, witness and review points — guiding the client's engineer
- Specify sampling frequencies and acceptance criteria for concrete, steel, soil and masonry — supporting material approval decisions
- Apply pre-pour, reinforcement and formwork checklists before concealment — protecting structural integrity
- Assess test results against specification limits — informing accept, retest or reject decisions
- Build non-conformance reports with root cause and corrective action — serving the site manager
-

Compile inspection request forms and quality dossiers — supporting handover and defects-period claims

Key Construction Site Quality Control and Inspection Terms

- Inspection and Test Plan — a document listing each inspection and test for a works package, with criteria, records and responsible parties.
- Hold Point — a stage at which work stops until the client's representative inspects and releases it.
- Witness Point — a stage the client's representative may attend, though work continues if they do not.
- Method Statement — a document describing how one activity will be built, with sequence and quality checks.
- Non-Conformance Report — a record of work or material that fails a requirement, with its disposition.
- Material Submittal — a request for approval of a product, with data sheets, samples and test certificates.

Construction Site Quality Control and Inspection Day by Day

Day 1: Quality Requirements on a Construction Site

- Specification and Drawing Review — Extracting Inspectable Requirements
- Roles of Contractor, Consultant and Laboratory — Assigning Inspection Responsibility
- FIDIC Testing and Defects Clauses — Linking Inspection to Contract
- Site Quality Plan Structure — Setting Procedures and Records
- Building and Road Project Examples — Comparing Quality Risks

Day 2: Inspection and Test Planning

- Inspection and Test Plan Format — Defining Activities and Criteria
- Hold, Witness and Review Points — Agreeing Release of Work
- Method Statements — Embedding Checks in Construction Sequence
- Inspection Request Forms — Booking and Recording Site Inspections
- Material Submittals — Approving Products Before Delivery

Day 3: Material Sampling and Testing

- Fresh Concrete Tests — Slump, Temperature and Cube Sampling
- ACI 318 Strength Acceptance — Judging Cylinder and Core Results
- Reinforcement and Structural Steel Checks — Certificates, Laps and Cover
- Soil Compaction and Field Density Testing — Releasing Earthworks Layers
- Masonry, Waterproofing and Finishes Checks — Accepting Building Elements

Day 4: Non-Conformance and Quality Records

- Non-Conformance Reports — Recording Defects and Disposition
- Root Cause Analysis With Five Whys — Preventing Repeat Defects
- Corrective and Preventive Action Logs — Closing Findings on Time
- Quality Records and Traceability — Linking Tests to Locations
- Snagging and Handover Dossiers — Preparing Elements for Acceptance

Day 5: Practising the Inspection and Test Plan

- Pre-Pour Inspection Exercise — Applying Checklists to a Slab
- Test Result Review Case — Deciding on Low Cube Strengths
- Site Walk Simulation — Raising and Grading Non-Conformances
- Peer Review of Draft Plans — Testing Points and Frequencies
- Inspection and Test Plan — Completing a Package Plan for Release

Applying Construction Site Quality Control and Inspection After the Course

- Prepare an Inspection and Test Plan for one upcoming works package and agree its hold points with the client's engineer.
- Review open non-conformance reports on one site, apply five whys to repeat defects and set corrective actions.

Construction Site Quality Control and Inspection Questions FAQ

What is construction site quality control and inspection, and why does it matter now?

It is the planned checking, testing and recording of works so each element meets its specification before it is covered. It matters now because defects found late cost far more than inspections made at agreed hold points.

Which roles gain most from construction site quality control and inspection training?

Site QA/QC engineers, inspectors and construction supervisors gain most. They plan inspections, witness tests and release work, so inspection and test plans, sampling rules and non-conformance procedures shape their daily decisions.

How does construction site quality control and inspection differ from a general quality management course?

It works on site elements and tests rather than an organisation's quality system. A quality management course covers policies and audits, while this subject plans inspections and closes defects on live works.

What do you bring back from construction site quality control and inspection training?

You bring back an Inspection and Test Plan for a works package you supervise. It lists activities, hold and witness points, test frequencies, acceptance criteria and records, ready to agree with the client's engineer.

Construction Site Quality Control and Inspection: The Way Forward

The Inspection and Test Plan first informs which activities stop for the client's release and which tests the laboratory must book. QA/QC engineers, inspectors and supervisors use it to schedule daily checks and compile records for handover. After its first month on site, revisit the test frequencies, since early results show which materials and trades need closer attention.