



*Training Course:
Construction Supervision & Quality Systems
Inspection*

*20 - 24 July 2026
Cape Town (South Africa)
DoubleTree by Hilton Cape Town - Upper Eastside*

Training Course: Construction Supervision & Quality Systems Inspection

Training Course code: EN236369 From: 20 - 24 July 2026 Venue: Cape Town (South Africa) - DoubleTree by Hilton Cape Town - Upper Eastside Training Course Fees: 7500 € Euro

Introduction

This specialized program is designed by Global Horizon Training Center to equip construction supervisors, QA/QC engineers, inspectors, and technical professionals with the essential competencies required to oversee and evaluate civil construction activities in accordance with international quality standards.

The program focuses on analyzing the Quality Systems of inspection companies and assessing their adequacy for reinforced concrete works, steel structures, formwork systems, and soil testing operations. Participants will learn practical inspection and testing methodologies, enabling them to prepare professional Compliance Control Reports, review inspection documentation, and apply accurate quality measurements throughout all construction phases.

Through a combination of practical workshops, real project case studies, and applied inspections, this program ensures that participants can confidently supervise site activities, enforce quality requirements, identify deviations early, and enhance compliance with specifications, standards, and contractual obligations.

Objectives

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

- Analyze and evaluate the Quality Systems used by inspection companies for civil construction activities.
- Assess adequacy and compliance for reinforced concrete, structural steel, formwork, and soil testing procedures.
- Implement inspection and testing methodologies aligned with project specifications, codes, standards, and ITPs.
- Prepare accurate and professional Compliance Control Reports.
- Conduct quality control checks and measurements for concrete, steel reinforcement, formwork, and structural components.
- Identify, document, and report non-conformities and deviations.
- Strengthen supervisory decision-making to improve construction quality and safety.
- Apply standardized templates, checklists, and reporting tools in daily inspection tasks.

Target Audience

This program is suitable for:

- Construction Supervisors
- QA/QC Engineers and Inspectors
- Site Engineers & Project Engineers
- Material & Laboratory Technicians
- Consultant and Contractor Representatives
- Inspection Company Staff
- Technical Office Engineers involved in compliance and reporting

Outline

Day 1 - Fundamentals of Construction Supervision & Quality Systems Analysis

- Roles and responsibilities of supervisors, inspectors, and inspection companies
- Components of an effective Quality System manuals, procedures, templates
- Adequacy criteria for inspection companies and third-party inspectors
- Key quality documents: ITPs, Method Statements, Checklists
- Overview of ISO standards relevant to inspection & testing
- Evaluating inspection companies' capability and readiness
- Workshop: Quality System Gap Analysis for civil construction activities

Day 2 - Inspection & Quality Control for Reinforced Concrete Works

- Concrete material requirements & mix design control
- Reinforcement inspection: spacing, bending, cover, laps, anchorage
- Pre-pour inspection methodology and critical checks
- Fresh concrete testing: slump, temperature, air content, sampling
- Hardened concrete tests: compressive strength, core extraction concept

- Acceptance criteria and handling non-conforming results
- Writing concrete inspection reports & compliance summaries
- Case Study: Evaluation of concrete test results for compliance

Day 3 - Steel Works & Formwork: Supervision and Quality Measurement

Part A - Steel Works

- Material certificates, traceability, and documentation
- Structural steel inspection: fabrication tolerances & alignment
- Reinforcement steel measurement: diameter, lengths, lap splices
- Visual welding inspection concept, bolts, and torque checks
- Steel protection and coating quality DFT - concept

Part B - Formwork & Falsework

- Types of formwork systems & design considerations
- Pre-pour formwork inspection methodology
- Formwork measurement: levels, alignment, plumb, dimensions
- Stripping times, failure causes, and preventive quality control
- Workshop: Developing a Formwork Inspection Checklist

Day 4 - Soil Testing, Compaction Control & Earthwork Supervision

- Soil classification tests and laboratory procedures concept
- Field density tests, moisture content, PLT overview
- Supervision of compaction & backfilling operations
- Acceptance criteria for earthwork and foundation layers
- Common deficiencies in soil and compaction reports
- Integrating soil-test outcomes into Compliance Control Reports
- Workshop: Reviewing and validating soil test reports

Day 5 - Inspection Methodologies & Preparation of Compliance Control Reports

- Step-by-step inspection methodology for concrete, steel, formwork & soil
- Preparing a professional Compliance Control Report:
 - Scope & standards
 - Summary of inspections & tests
 - Non-conformities and corrective actions
 - Acceptance statements
 - Documentation workflow & traceability requirements
- Group Activity: Preparing a full Compliance Control Report
- Final Case Study:
Participants integrate concrete, steel, formwork, and soil inspections into one complete report
- Course wrap-up and personalized development plan for field application

Registration form on the Training Course: Construction Supervision & Quality Systems Inspection

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Payment Method

- Please find enclosed a cheque made payable to Global Horizon
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