

Site management

Concrete construction

Build the practical management capability required to plan, co-ordinate and control structural concrete works in building and civil engineering projects.

Sector:
South African building
and civil construction

Technical basis:
Project specifications and
applicable SANS

Contracts:
Project-selected JBCC, GCC,
NEC or FIDIC

Programme overview

Structural concrete projects, including multi-storey building frames, bridges, culverts and reservoirs, must be delivered within demanding quality, safety, environmental, programme and cost requirements.

This practical programme develops the site management capability needed to plan, co-ordinate and control structural concrete operations from mobilisation and drawing interpretation to temporary works, reinforcement, concrete placement, quality records and sectional handover. It connects design information with site execution while reinforcing the limits of delegated authority and the need for approvals by the appointed competent persons and relevant professional team.

Target audience and sector alignment

The programme is intended for people who manage, supervise or support structural concrete work in South African building and civil engineering environments:

- **Experienced construction managers and site agents:** Managers and developing site agents who want to strengthen their operational control of concrete works, including multi-storey frames, reservoirs and bridge structures
- **General foremen and formwork or concrete foremen:** Foremen and trade supervisors preparing for broader responsibility across formwork, falsework, reinforcement and concrete placement operations
- **Emerging contractors and SMMEs:** Contractors seeking to improve planning, estimating, quality control, contract administration and safe delivery of structural concrete work
- **Quality personnel and technical representatives:** Site inspectors, quality personnel and technical representatives responsible for inspections, traceability, test records and project-specific sign-offs within their authority

Programme structure at a glance

The programme comprises four curriculum blocks and 12 modules covering the operational, commercial, quality and safety functions needed to manage structural concrete work.

Programme block	Core focus and included modules
Block I Structural project inception, detailing and logistics	• Module 1: Site planning, logistics and batching plant establishment • Module 2: Structural drawings and reinforced concrete detailing
Block II Structural concrete operations, temporary works and placement	• Module 3: Formwork systems, falsework and shoring • Module 4: Concrete technology, mix requirements and testing • Module 5: Concrete placement equipment and logistics
Block III Commercial controls, contracts and scheduling	• Module 6: Tendering and structural concrete cost estimating • Module 7: Contracts and structural concrete specifications • Module 8: Construction scheduling and pour-rate management
Block IV Quality, safety and subcontractor co-ordination	• Module 9: Site records and structural quality-control logs • Module 10: Structural quality control, curing and defect management • Module 11: Structural concrete safety leadership • Module 12: Labour and subcontractor management

Strategic benefits and operational value

The programme supports stronger planning, control and decision-making across four areas:

Operational planning and logistics Learners practise planning access, crane and pump interfaces, concrete deliveries, staging areas and formwork cycles to reduce avoidable waiting and improve workflow control	Quality control and traceability Learners use inspection, sampling and traceability processes to identify non-conformance early and support compliance with the project drawings, specifications and acceptance criteria
Commercial and contract control Learners connect quantities, unit rates, programme records, instructions and notices to the applicable contract procedures so that commercial events are documented and referred promptly	Safety and environmental control The programme integrates temporary works, lifting, work at height, concrete placement, washout and subcontractor controls with the project's health, safety and environmental systems

Key operational outcome

Learners leave with a structured approach to planning, co-ordinating, recording and controlling structural concrete work within the authority assigned to their site role.

Enrolment details and registration

Ready to advance your site-management career or develop the capabilities of your site and project teams?

Contact the TJEKA admissions and registration office to register, request a formal corporate quotation or discuss customised group-enrolment options.

email: go@tjeka.co.za

Delivery formats: Structured on-site workshops and TJEKA GO distance learning

Programme status and disclaimer

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