



ENGINEERING AND TECHNICAL TRAINING

Reinforced Concrete Construction and Formwork

3 day course

Classroom, online or in-house

Course overview

Most reinforced concrete failures on site are not design failures: the steel was in the wrong place, the cover was short, or the formwork moved. This course concentrates on the work that decides those things. Delegates work through reading reinforcement drawings and bending schedules, and checking that what arrives on site matches what was scheduled. Bar fixing is covered in detail: spacing, laps, anchorage, and the cover that determines how long a structure lasts in an aggressive environment. Formwork design principles follow, including concrete pressure, rate of rise and the props and bracing that resist them. Falsework and its collapse risks are addressed directly. Striking times and early age strength are covered. Placing sequences, construction joints and pours that must not be interrupted follow. Surface finish, honeycombing and remedial work are addressed. The course closes on inspection before pouring, on the checks that cannot be done afterwards, and on records.

What you will learn

- Read reinforcement drawings and bending schedules accurately
- Fix bars to correct spacing, laps, anchorage and cover
- Design formwork for concrete pressure and rate of rise
- Erect falsework safely and recognise collapse risks
- Set striking times against early age strength
- Plan pour sequences and construction joints
- Inspect before pouring and remedy surface defects afterwards

Who should attend

- Site engineers and section foremen
- Formwork and falsework supervisors
- Steel fixing supervisors
- Clerks of works and site inspectors
- Contractors delivering concrete frame works

Course outline

- 01 Steel in the wrong place
- 02 Reinforcement drawings and bending schedules
- 03 Bar fixing, laps and anchorage
- 04 Cover and durability
- 05 Formwork design and concrete pressure
- 06 Falsework and collapse risk
- 07 Striking times and early age strength
- 08 Pour sequence, joints, finish and pre pour inspection

Upcoming dates

Dates	Venue	Format	Fee per delegate
28 to 30 October 2026	Online	Online	R6,500
18 to 20 November 2026	Cape Town, South Africa	Classroom	R14,950
6 to 8 January 2027	Pretoria, South Africa	Classroom	R14,950



Fees and how to register

This 3 day course is **R6,500** per delegate online, **R14,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 995** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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