



INSTITUTE OF CONCRETE TECHNOLOGY
CONCRETE TECHNOLOGY & CONSTRUCTION

Stage 3: PRACTICAL APPLICATIONS

Syllabus

3.00.00	Introduction to the course
3.01.00	Health and safety
3.02.00	Sustainability
3.03.00	Shrinkage-compensating cement
3.04.00	Recycled and secondary aggregates
3.05.00	Alternative reinforcing materials and corrosion-resistant reinforcement
3.06.00	Reinforcement and prestressing
3.07.00	Durability
3.08.00	Fire resistance
3.09.00	Cracking in concrete
3.10.00	Hardened concrete – dimensional changes
3.11.00	Creep and drying shrinkage
3.12.00	Mix design
3.13.00	Quality control and quality assurance
3.14.00	Testing, inspection and assessment
3.15.00	Formwork and Falsework
3.16.00	Plant
3.17.00	Planning, organisation, supervision and safe working practices
3.18.00	Curing
3.19.00	Small precast products
3.20.00	Large precast products
3.21.00	Sprayed concrete
3.22.00	Underwater concrete
3.23.00	Concrete piles and diaphragm walls
3.24.00	Grouts, grouting and grouted aggregate concrete
3.25.00	Slipform and jumpform construction
3.26.00	High strength concrete
3.27.00	Self-compacting concrete
3.28.00	Concrete floors
3.29.00	Concrete roads and ground slabs
3.30.00	Vacuum process
3.31.00	Concrete repairs

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