

## INSTITUTE OF CONCRETE TECHNOLOGY CONCRETE TECHNOLOGY & CONSTRUCTION Stage 2: GENERAL PRINCIPLES Syllabus

2.00.00	Introduction to the course
2.01.00	Health and safety
2.02.00	Sustainability
2.03.00	Portland cements and additions
2.04.00	Non-Portland cements
2.05.00	Natural aggregates
2.06.00	Light-weight and heavy-weight aggregates and concrete
2.07.00	Admixtures
2.08.00	Mixing water
2.09.00	Steel for reinforcing and prestressing
2.10.00	Fibre-reinforced concrete
2.11.00	Fresh concrete
2.12.00	Hardened concrete - behaviour under load
2.13.00	Hardened concrete - dimensional changes
2.14.00	Hardened concrete - durability
2.15.00	Testing fresh and hardened concrete
2.16.00	Quality control – statistical methods
2.17.00	Specification
2.18.00	Mix design
2.19.00	Storage, batching and mixing
2.20.00	Concrete production and supply
2.21.00	Ready-mixed concrete
2.22.00	Operation and maintenance of plant
2.23.00	Management
2.24.00	Formwork and Falsework
2.25.00	Reinforced concrete
2.26.00	Prestressed concrete
2.27.00	Precast concrete
2.28.00	Transporting and placing
2.29.00	Compaction and finishing
2.30.00	Curing
2.31.00	Joints
2.32.00	Concrete finishes
2.33.00	Concrete roads
2.34.00	Ground slabs
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