



Asia Masters Center

Concrete Structures Design



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Concrete Structures Design

➔ Course Objective

- Understand quality assurance methods for concrete
- Understand the basics of quality concrete construction
- Fully utilize the latest technology in concrete materials and construction methods
- Recognize and solve potential problems with concrete construction
- Provide design details to minimize concrete deterioration
- Develop project specifications to improve concrete durability
- Reduce potential conflicts in specifications

➔ Target Audience

- Engineers who design concrete structures exposed to harsh environments such as bridges, roadways, plazas, parking structures, marine structures or any building with exposed concrete.



Course Outline

Day 1

Concrete in Extreme Conditions

- Freeze-Thaw
- Chemical Attack
- Marine Environments
- Abrasion and Erosion
- High Strength Concrete
- Self-Consolidating Concrete
- Mass Concrete
- Roller-compacted Concrete
- Pervious Concrete
- Ultra-thin Whitetopping

Day 2

Design Details to Reduce Corrosion

- Crack Control
- Concrete Cover
- Materials and Mix Design
- Characteristics
- Membranes and sealers
- Cathodic Protection

Day 3

Fundamentals of Quality Concrete

- Materials

- Batching and Delivery
- Quality Control and Quality Assurance

Day 4

Construction Methods

- Handling and Placing Concrete
- Finishing and Curing Concrete
- Hot and Cold Weather Concrete
- Construction Scheduling
- Specifying Concrete for High Performance
- Prescriptive versus

Day 5

Performance-based Specifications

- Performance Criteria
- Construction Execution
- Pre-qualification Testing
- Acceptance Testing
- Troubleshooting Concrete Failures
- Plastic Concrete
- Hardened Concrete

➤ The Feature Of Asia Master Training And Development Center

- we pick up the customer from the airport to the hotel.
- we give the participant training bag includes all the necessary tools for the course.
- Working within groups to achieve the best results.

- All our courses are confirmed and we do not postpone or cancel the courses regardless of the number of participants in the course.
- We can assist you in booking hotels at discounted prices if you wish to book through us.
- We offer the certificate from Asia Masters Center for Training and Administrative Development.

➔ **The Cost Of The Training Program Includes The Following:**

- 1) Scientific article on flash memory.
- 2) Training Room.
- 3) Training.
- 4) Coffee break.
- 5) The training bag includes all the tools for the course.

Price (USD)

**Communicate with the training department
to know the participation fees**

➤ **There are offers and discounts for groups**

The details of the bank account

Bank name: CIMB Bank Berhad

Account name: Asia Masters Center SDN. BHD

Bank account number: 80-0733590-5

Swift code: CIBBMYKL

IBAN: Null

