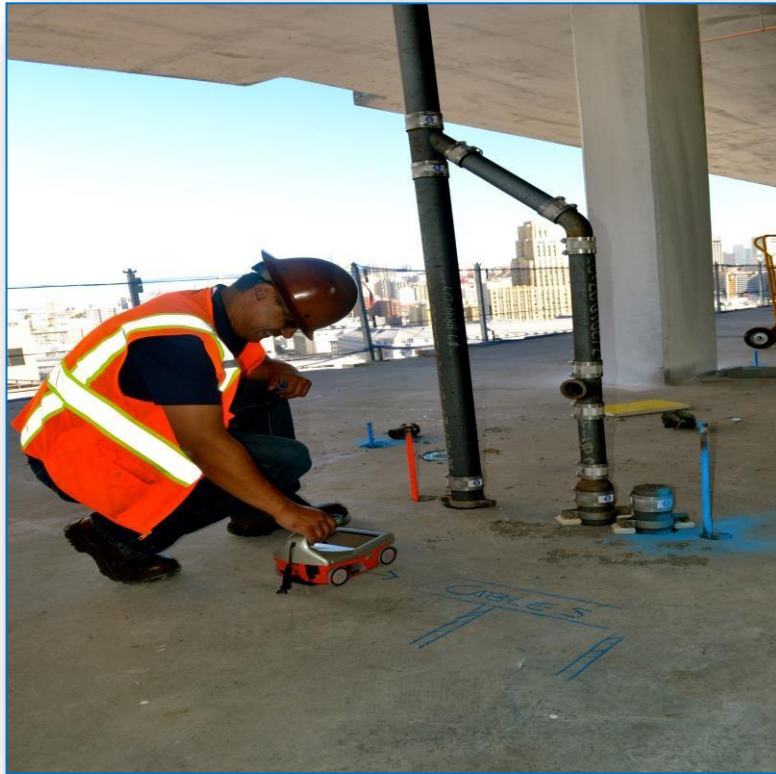




المركز العالمي للتدريب والتطوير
International Centre For Training & Development



CC078

Inspection, Assessment and Repair of Concrete Structure



ACTVET
Abu Dhabi Centre for
Technical and Vocational
Education and Training
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and the Environment

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Course Introduction:

This course is intended for civil engineers who are interested in the area of inspection, assessment and repair of concrete structures. This course enables delegates already familiar with what concrete is, to develop skills in effective specification, production and end users of concrete. The course also covers basics as well as advanced concepts up-to-date technology.

Course Objectives:

The delegates will be provided with detailed course material and will be familiarized with various features on concrete construction. **Upon successful completion of this course, the delegates will be able to:**

- ✓ Explain the nature of concrete and determine slag and fly ash properties as well the properties of admixtures and concrete mixes
- ✓ Employ inspection, quality control, sampling and testing on concrete sites
- ✓ Monitor and supervise repairs and health and safety on concrete site practices
- ✓ Select precise materials and apply specifications, concrete production and quality assurance on concrete structure
- ✓ Discuss the principles of concrete mix design
- ✓ Inspect and perform sampling and compliance testing

Who Should Attend?

This course is intended for all construction supervisors, civil engineers and inspectors.

Course Outline:

Day 1:

- The Nature of Concrete
- Portland Concrete, Slag and Fly Ash Properties
- Properties of Admixtures and Concrete Mixes

Day 2:

- Inspection and Quality Control of Concrete
- Sampling and Testing Concrete on Site
- Concrete Faults

Day 3:

- Effective Supervision of Repairs
- Health and Safety Practices
- Reinforced Concrete Site Practice

Day 4:

- Selection of Materials — Cements, Aggregates, Additions and Reinforcement
- Concrete Mixes and Specifications
- Concrete Production and Quality Assurance

Day 5:

- Principles of Concrete Mix Design
- Inspection, Sampling and Compliance Testing

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Fees:

To be advised as per course location - This rate includes participant's manual, Hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

