



**Asia Masters Center**

# Risk Based Inspection and Maintenance For Reinforced Concrete Structure



Asia Masters Centre (AMC), Suite 2 B, level 6, Office Block, Grand Millennium Hotel, Bukit Bintang Street,  
55100 Kuala Lumpur, Malaysia. | Tel: +60327326992 | Mobile: +601 8909 0379 | Fax: +60327326992  
Website: <http://www.asiamasters.org/> | Email: [info@asia-masters.com](mailto:info@asia-masters.com)

## Risk Based Inspection And Maintenance For Reinforced Concrete Structure.

### ➔ Course Objective

- How to apply decision tree in conceptual design
- Introduction to assessment of concrete structure
- Understanding Risk Based Inspections
- Developing an In-service Inspection Plan
- How to implement maintenance plan?
- The coaching to help develop your specific reliability-focused design strategy
- Understanding why structure fails
- Build on your knowledge of qualitative risk assessment methods to discover when and how to quantify the results
- Gain a clear understanding of the most critical aspects of your structure

### ➔ Target Audience

- Civil engineer
- Maintenance Engineers
- Design structural engineers
- Supervision engineer
- Planners
- Construction engineers



## Course Outline

- Overview of Planned Maintenance principles
- Characteristics of world-class planned maintenance
- Reliability and maintainability issues in each design phase
- Importance of a life-cycle approach to asset and cost management
- Understanding life-cycle costs, including the cost of unreliable performance
- ACI, BS, and AISC codes for reliable structure
- Corrosion effect on structure risk
- Failure mode of concrete structure
- Structure redundancy
- Fresh and hardening concrete test
- Characterizing expected reliability-related performance of processes in design
- Understanding Risk Based Inspections:
- Maximized return on investment
- Identifying and determining deterioration of concrete structure
- Assessment of concrete structure
- Advanced inspection technique
- Advanced technique in measured corrosion in the steel bars.
- Defining scope, establishing a team, and creating a structures list
- Collecting loading, strength and environmental data
- Prepare annual inspection work scopes / workbooks
- Inspection and quality control of concrete
- Sampling and testing concrete on site
- Effective supervision of repairs
- Reinforced concrete site practice



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- Selection of materials ??? cements, aggregates, additions and reinforcement
- Concrete mixes and specifications
- Inspection, sampling and compliance testing
- Types of repair the RC structure

### ➤ **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.



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### 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**