



**PERSATUAN KEBANGSAAN KONKRIT SIAP BANCUH MALAYSIA
NATIONAL READY-MIXED CONCRETE ASSOCIATION OF MALAYSIA**

Concrete Defects: Testing & Repairs

Date : 12th & 13th July 2022, Tuesday & Wednesday

Time : 9:00 a.m. to 5:00 p.m.

Venue : Training will be conducted at NRMCA Training Room, Unit D-2-58, 2nd Floor,
Block D, 10 Boulevard, Lebuhraya Sprint, PJU 6A, 47400 Petaling Jaya, Selangor.

Who Should Attend

- Supervisory & Management personnel in ready-mixed concrete industry.
- Clerks-of-work / construction site supervisor.
- QA / QC engineers, consultants & architect representatives.
- JKR engineers.

Course Fees

- RM1200.00 per participant for NRMCA Members. RM1,350 per participant for non-members.
- Fees inclusive of training materials, lunches, morning and afternoon breaks.
- Payments via cheques or online transfers can be made to "NRMCA". We appreciate that you assist to bank any cheques into our Hong Leong Bank accounts No. 369 0000 5264 and email us the bank in slip with your company name to Mr Daniel Lee or Hong Juin of Nova at finance@novabizservices.com or fax to 603 7960 7882 in order for NRMCA to identify your payment and receipt will be issued accordingly upon request. Alternatively, email to nrmcam@gmail.com attention to Ms Kate Wong or WhatsApp to 016-2893514

SBL Scheme

Companies can apply online directly to HRDF. SBL or SLB Scheme will be based on the individual merit of each application.

Course Structure : 8 Modules class room based.



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Course Outline

Day 1

Introduction and Pre-Course Assessment

- **Module 1: Concrete Technology;** types of cement, admixtures special additives and new generation materials (9am to 10.30am)
- **Module 2: Properties of Fresh Concrete;** setting time, bleeding, hydration, drying shrinkage, plastic shrinkage (10.30am to 12pm)
- **Module 3: Control Tests and Tolerances;** sampling, slump test, compacting factor test, vebe test, bleeding of concrete, cube test, indirect tensile test, creep test (1pm to 3pm)
- **Module 4: Interpretation of Cube and Core Test Results;** how to interpret results for compliance testing based on JKR specs (3pm to 5pm)

Day 2

- **Module 5: Concrete Waterproofing;** properties of concrete, porosity, permeability, special additives and new generation materials for concrete waterproofing (9am to 10.30am)
- **Module 6: Curing and Protection of Concrete;** hot weather concreting, curing techniques, causes and prevention of cracks, protecting concrete against premature deterioration (10.30am to 12pm)
- **Module 7: Work place Safety and Environment;** work place safety and hazards, basic safety precautions for concreting, environmental best practice in concrete delivery, placing and disposal (1pm to 3pm)
- **Module 8: Common Problems and Solutions;** shrinkage, excessive bleeding, durability, dusting, surface crazing, random cracking, repairing cracks in concrete (3pm to 5pm)



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Course Objectives

This course is designed for personnel engaged in the ready mixed concrete industry. The first objective of this course is to expose participants to a series of new generation additives and materials for concrete.

Properties of fresh concrete including a detailed description of the different parameters related to bleeding and setting time of concrete are also included in the course. Factors related to testing are discussed in detail to highlight the need to understand the importance of proper test procedures for both fresh and hardened concrete.

For compliance testing and interpretation of cube and core samples reference is made to the latest JKR specifications. In this course an attempt is also made to explain the essentials of concrete waterproofing which is useful when dealing with challenges related to concreting of basements and water retaining structures.

Proper curing and protection of concrete which is extremely important for durable concrete is discussed in detail with emphasis on the need for a safe work place and environmental best practice in concrete delivery.

Finally, problems and solutions related to poor quality concrete are highlighted to equip participants with best practice guidelines for addressing issues related to poor quality concrete.



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REGISTRATION FORM

Company: _____

Address: _____

Contact Person: _____ Mobile _____

Contact: Tel _____ Email: _____

1. Participant Name: _____

Position: _____

2. Participant Name: _____

Position: _____

3. Participant Name: _____

Position: _____

4. Participant Name: _____

Position: _____

5. Participant Name: _____

Position: _____

For Registration, please Contact:

Kate Wong, mobile: 0162893514

E-mail : nrmcam@gmail.com