



Training Course :

Designing High Performance Concrete Structures

Training Course For One Week In

Singapore , Mandarin Orchard
Singapore

Which Be Held As Under Details :



Abar Solutions Petroleum Consultancy Invite Your Employee To Participate With Us In Special Training Course As Under Details :

Course Name		Designing High Performance Concrete Structures			
Code	Period	Language	Start	End	Location
CE 009	5 Days	English	07/08/2017	11/08/2017	Singapore , Mandarin Orchard Singapore
			04/09/2017	08/09/2017	
			09/10/2017	13/10/2017	
			13/11/2017	17/11/2017	
			18/12/2017	22/12/2017	
			15/01/2018	19/01/2018	
			12/02/2018	16/02/2018	
			12/03/2018	16/03/2018	
			23/04/2018	27/04/2018	
			14/05/2018	18/05/2018	
			11/06/2018	15/06/2018	
			09/07/2018	13/07/2018	

**** The Fees Includes : Lecturer , Training Material , Training Room With One Coffee Break Daily , Certificate Of Attendance In Last Day Training Course ****

Course Description

⇒ This seminar will introduce you to state-of-the-art technologies and methodologies for designing and specifying concrete subjected to extreme conditions.

Course Objectives

⇒ **At the end of this seminar you will be able to:**

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

- Recognize and solve potential problems with concrete construction

Course Content & Outlines

⇒ **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

⇒ **Design Details to Reduce Corrosion**

- Crack Control
- Concrete Cover
- Materials and Mix Design

⇒ **Characteristics**

- Membranes and sealers
- Cathodic Protection

⇒ **Fundamentals of Quality Concrete**

- Materials
- Batching and Delivery
- Quality Control and Quality Assurance

⇒ **Construction Methods**

- Handling and Placing Concrete
- Finishing and Curing Concrete
- Hot and Cold Weather Concrete
- Construction Scheduling

⇒ **Specifying Concrete for High Performance**

- Prescriptive versus

⇒ **Performance-based Specifications**

- Performance Criteria
- Construction Execution
- Pre-qualification Testing
- Acceptance Testing

⇒ **Troubleshooting Concrete Failures**

- Plastic Concrete
- Hardened Concrete