



Training Course :

Advanced Materials for Construction and Repair of Concrete Structures

Training Course For One Week In

UAE, Dubai, Cityseason Suites Hotel

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		Assessment Of Defects In Concrete Structures And Evaluation Of Safety Of Concrete Infrastructure			
Code	Period	Language	Start	End	Location
CE 047	5 Days	Bilingual (Arabic & English)	13/08/2017	17/08/2017	UAE , Dubai , Cityseason Suites Hotel
			03/09/2017	07/09/2017	
			08/10/2017	12/10/2017	
			12/11/2017	16/11/2017	
			10/12/2017	14/12/2017	
			14/01/2018	18/01/2018	
			11/02/2018	15/02/2018	
			11/03/2018	15/03/2018	
			15/04/2018	19/04/2018	
			20/05/2018	24/05/2018	
			10/06/2018	14/06/2018	
22/07/2018	26/07/2018				
<p>** The Fees Includes : Lecturer , Training Material , Training Room With One Coffee Break Daily , Certificate Of Attendance In Last Day Training Course **</p>					

Course Description:

⇒ In the past, outmoded and functionally obsolete buildings were routinely demolished; today they are often maintained, repaired, remodeled and restored. The concept of recycling, once applicable to collecting glass bottles, metal cans and newspapers, now has engineering significance. Recycling buildings can be viewed as a way to conserve resources and reduce landfill demand. The most astounding challenge facing engineers and scientists to date has been in the development of new, advanced construction and

repair materials. The new technology of polymer composites, initially used by the aircraft industry, has now found its way to the construction industry and is bound to have a huge impact on the way structures are built and repaired. Advanced materials with superior qualities require the collective efforts of engineers, chemists, physicists together with economists and aestheticians. If this can be done in a really imaginative way, then the future opportunities are enormous. The concept of recycled buildings is already attracting attention and the idea is probably not mere fiction.

Who Should Attend?

⇒ This course is designed to meet the needs primarily of structural engineers, material specialists, quality control and quality assurance experts, construction and supervision engineers, and contractors. Because it avoids impenetrable technical terminology, the course content should be easily followed by architects who are seeking to broaden their knowledge of repair methods and materials. Engineers involved in design, supervision, construction or planning will find many direct links with their practice and requirements and can put the information provided to use immediately.

Course Details & outlines:

- ⇒ Day One: Concrete as an old and new material
- Concrete as an old material
 - Properties of concrete
 - The development of reinforced concrete structure
 - Concrete with admixture
 - Concrete with polymers
- ⇒ Day Two: Engineering Analysis of Structural Defects And Failures
- Causes of deterioration of structures
 - Shape of distress

- Analysis of the cracks and defects
- Solved examples of defects

⇒ Day Three: Repair of structural element

- Testing of the deteriorate structure
- Propping of the defected elements
- Repair of columns
- Repair of beams
- Repair of slabs
- Repair of cracks

⇒ Day Four: New materials for construction

- Fiber reinforced polymers
- Using FRP as a reinforcement
- Using FRP as a repair material
- Advantages & Disadvantages
- Method of application for various type of structural elements
- Grancrete as a replacement of cement & Grancrete properties
- Advantages and disadvantages & Applications
- Self-compact concrete
- High strength concrete

⇒ Day Five: New systems for construction

- Sandwich panel structures
- Coffour system
- M2 system
- Composite construction
- How to make a structural report for structural safety problems