

# TRAINING CONSTRUCTION ENGINEERS FOR VIKSIT BHARAT



## ISOI MODULE 1: DEFECTS IN CONCRETE - CAUSES, PREVENTION AND REPAIR

### WHO SHOULD ATTEND

Engineers in Charge of  
Concrete Construction

Concrete Quality  
Management Professionals

Engineers and Owners of PMC  
Who Need to Take Decisions  
Regarding Concrete Defects

*Participants Should Have atleast  
3 Years Work Experience, Preferably  
Dealing with Concrete Construction*

## BUILD EXPERTISE TO CREATE DEFECT-FREE STRUCTURES

Concrete continues to be the most widely used construction material and will hold this position in the foreseeable future. RCC and PSC structures constructed over the last few decades have not lived up to the potential that concrete has. Much of this can be attributed to the defects that become embedded in the 'as built' structure.

While we seem to have mastered the art and science of producing high quality concrete in the state-of-the art plants, the gap between quality of concrete in-situ and quality of concrete supplied continues to remain, if not widen even more.

In this context, ability of the practicing Engineers to understand and avoid defects in concrete is an essential component of their competence. To address that gap in this area, we present an interactive workshop on "**defects in concrete - causes, prevention and repairs**". The programme is designed and conducted by Mr. Shashank Vaidya.

### COURSE CONTENTS

- Need for defect free concrete
- Types of defects in concrete
- Impact of defects on various aspects of concrete's performance
- Different factors contributing to defects and identifying them
- Case Studies
- Repairing defects
- Quiz and Q&A

### PROGRAM HIGHLIGHTS

#### ONE DAY PROGRAM

**PROGRAM FEE:**  
₹ 5,000\*

#### VENUE

**ISOI INCUBATION CENTRE**  
A 402, The Great Eastern  
Chambers, CBD Belapur  
Navi Mumbai - 400614

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\* Fee is per participant. Taxes as Applicable.



**Mr. Shashank Vaidya**  
Director,  
GEM Engserv Pvt Ltd.,  
Training Professionals for  
over 3 Decades

A respected and **senior construction industry expert** with close to **four decades of experience** in leading organizations such as Indian Railways, Indian Railway Institute of Civil Engineering, Konkan Railway, HCC, HIRCO and Gem Engserv.

He has **trained over 10,000 engineers** in concrete technology through his programmes and has exposure to all aspects of concrete construction, including mix design, supervision, specifications, quality management and troubleshooting. He has conducted numerous audits of construction projects involving concrete works, helping improve performance, and has been engaged as an expert to diagnose problems in both new and old concrete structures.

Mr. Vaidya is a **Gold Medallist in M. Tech. (Structures) from IIT Madras** and recipient of the **2019 Lifetime Achievement Award from the Indian Concrete Institute**. A certified lead auditor of ISO 9001, he also holds memberships in several professional bodies including Indian Concrete Institute, Indian Institute of Bridge Engineers, Institution of Engineers, Indian Roads Congress and ACI (India Chapter).