

Industrial Building Design - Control Room, Substations,

Warehouse and Offices Course

Venue Information

Venue: London UK

Place:

Start Date: 2025-10-20 **End Date:** 2025-10-24

Course Details

Net Fee: £4750.00 Duration: 1 Week

Category ID: CACETC

Course Code: CACETC-33

Syllabus

Course Syllabus

Course Description

- The industrial building design need more attention to some requirement. The design management procedure for industrial building will be clarify.
- The concrete and steel structure design principal will be illustrated to select the suitable structure system
- In this course the different structure system for concrete and steel structure will be discussed. All the load which effect the industrial building will be discussed.
- The design of the control room, workshop, warehouse and offices will be illustrated.
- The design and construction procedure based on the ACI AISC, and API will be discussed.

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as advanced concepts up-to-date technology.

Course Objective

- The participants will be provided with detailed course material and will be familiarized with suitable way in design and construction the industrial building.
- The engineer will be familiar with any problem and its solution in the concrete structure in the petrochemical industry and its causes of failure.

Course Outline

- Design Management process
- Control the design of the industrial building
- Define the load on the buildings
- Ballast load and its design philosophy
- · Principal of reinforced concrete and steel design
- Live load in different industrial building
- Wind and earthquake load effect in BS, UBC codes
- Principal of design foundation under machine
- · Different types of structural system
- Ways to select the better structure system
- Control room design precaution
- Offices design based on an operation requirement
- Warehouse and workshop design cases
- Design of crane track girder in the workshop
- Reasons of fails and cracks of concrete structure in industrial building.
- Construction precaution to achieve design requirement
- Preparing tender package
- Tender evaluation technique
- The inspection and monitoring procedure to control the construction
- Use of HSC and HPC in the building

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