



SC026: Building Condition Assessment

Training Description:

As buildings age, those responsible for them must get involved with condition surveys. These individuals have to evaluate materials, conduct destructive or non-destructive tests, evaluate results and decide on the necessary actions for structural rehabilitation. This seminar explains the step-by-step procedures for conducting a condition survey of concrete, steel, timber and masonry structures, HVAC, mold, plumbing, Electrical and fire safety systems.

The strengths and limitations of destructive and non-destructive techniques, along with their suitability for a variety of situations, are discussed.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Follow the visual inspection methods used by specialists
- ✓ Use the latest destructive and non-destructive investigation techniques when conducting a building condition survey
- ✓ Select destructive and non-destructive testing techniques based on their strengths and limitations, and suitability to your concrete, steel, timber and masonry structures
- ✓ Interpret building system results
- ✓ Assess the useful life of the building systems and the whole building

Training Designed for:

This course is intended for all those who are working as Structural Engineers, Project Engineers & Managers, Consulting Engineers, Designers, Facility Supervisors & Managers Building Services Managers, Technicians & Technologists, Capital Asset Personnel, Inspection Personnel and Architects.

Training Requirement:

"Hand's on practical sessions, equipment and software will be applied during the course if required and as per the client's request."

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client's learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ The aim of assessing
- ❖ What is the qualification of the engineer who should carry out the assessing?
- ❖ From where the engineer begins the mission
- ❖ Collection the data about the building
- ❖ Examining and sorting the collected data
- ❖ Reviewing the drawings which the actual constructed building

DAY TWO:

- ❖ Make complete drawings (structural and arch.) for the existing building which has no documents
- ❖ Tracing the cracks and deterioration on the drawings
- ❖ Create a complete model for the building
- ❖ The nondestructive testing needed in assessing
- ❖ What are the differences between structural analysis for a new building and an existing building?
- ❖ The final decision and the recommendations

DAY THREE:

- ❖ How to use the assessing to get the price of the building
- ❖ How to write the final report
- ❖ What are the general remarks which enable the engineer to know the quality of the assessing report?
- ❖ Assessing and examining a building for the court
- ❖ What the court needs from the engineer in his report
- ❖ What are the differences between the terminologies that the court use and the engineer use?

DAY FOUR:

- ❖ Three cases study
- ❖ How to assess a building to judge between two companies or organizations?
- ❖ What are the steps that the engineer should take into account during his mission?
- ❖ Assessing to know the structural safety of the building
- ❖ Three cases study for the structural safety
- ❖ Assessing for repair and rehabilitation

DAY FIVE:

- ❖ Three cases study for repair
- ❖ Assessing for investment
- ❖ Three cases study for investment
- ❖ How to write the final report
- ❖ What are the general remarks which enable the engineer to know the quality of the assessing Report?
- ❖ Course Conclusion
- ❖ POST-TEST and EVALUATION

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

TBA as per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

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