

STRUCTURAL RENOVATION OF BUILDINGS TRAINING

“Reviving Structures for Strength, Safety, and Sustainability”

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

This specialized training provides a comprehensive understanding of the principles, methods, and best practices involved in the structural renovation of existing buildings. Participants will learn how to assess, plan, and execute renovation works that enhance the performance, durability, and safety of aging or damaged structures. The course covers evaluation techniques, repair and strengthening methods, material selection, and project management considerations to ensure successful renovation outcomes.

Objectives

By the end of this course, participants will be able to:

- Understand the need and process for structural renovation of buildings.
- Identify structural deterioration, defects, and damage mechanisms.
- Select appropriate repair and strengthening techniques for various materials.
- Plan and manage renovation projects safely and efficiently.
- Apply relevant design standards and quality assurance procedures.
- Integrate sustainability and cost-effectiveness into renovation strategies.

Why Attend

This course equips engineers, architects, and construction professionals with the knowledge to make informed decisions when dealing with old or damaged structures. Participants will gain practical insights into modern renovation technologies and techniques, ensuring buildings are restored to optimal condition with improved performance and extended service life.

Target Audience

- Structural and Civil Engineers
- Architects and Project Managers
- Building Inspectors and Maintenance Engineers
- Contractors and Construction Supervisors
- Consultants in Rehabilitation and Retrofitting
- Government and Facility Management Officials

Individual Benefits

- Enhanced capability to assess and renovate existing structures.
- Knowledge of modern repair materials and strengthening systems.
- Ability to plan and manage renovation projects effectively.
- Improved career prospects in the field of structural rehabilitation.
- Increased confidence in ensuring safety and compliance during renovations.

Organizational Benefits

- Improved structural reliability and asset performance.
- Reduced costs through targeted renovation and repair strategies.
- Enhanced reputation for quality and sustainable infrastructure management.
- Better risk management and compliance with safety regulations.
- Strengthened technical expertise within project teams.

Instructional Methodology

This course employs:

- Expert-led lectures and technical presentations
- Case studies of real renovation projects
- Hands-on workshops and problem-solving exercises
- Visual demonstrations and site-related discussions
- Interactive group sessions for experience sharing and analysis

Course Outline

Day 1: Introduction to Structural Renovation

- Overview of building deterioration and causes of structural distress
- Difference between renovation, restoration, and retrofitting
- Assessment planning and decision-making process

Day 2: Structural Assessment and Diagnosis

- Visual inspection and damage classification
- Non-destructive and semi-destructive testing methods
- Data analysis and condition evaluation

Day 3: Repair and Strengthening Techniques

- Repair materials: concrete, steel, composites, and polymers
- Strengthening of beams, slabs, columns, and foundations
- Jacketing, FRP application, and section enlargement methods

Day 4: Project Planning and Quality Control

- Design considerations for renovation works
- Construction sequencing and safety precautions
- Quality assurance, supervision, and documentation

Day 5: Sustainability, Case Studies, and Lessons Learned

- Sustainable materials and green renovation strategies
- Common challenges and mitigation approaches
- Review of successful renovation projects and final workshop

Certification

Upon successful completion, participants will receive a Certificate of Completion in Structural Renovation of Buildings Training, recognizing their professional competence in assessing, repairing, and strengthening existing structures.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation's unique goals.

In-House / Customized Training

Interested in running this course for your team?

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