**MAWA EVENTS**

**Address:** No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

**Phone:** +601116373203 | **Email:** info@mawaevents.net

# REHABILITATION AND REPAIR OF BUILDINGS ترميم المباني واعداد دراسات الترميم واتخاذ القرار

*“Restoring Value, Ensuring Safety — Master the Science of Building Rehabilitation”*

## Schedule

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

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

## Introduction

This comprehensive course is designed to equip professionals with in-depth knowledge and practical tools required for assessing, planning, and executing the rehabilitation and repair of existing buildings. As aging infrastructure and structural deterioration continue to challenge urban development and asset sustainability, understanding advanced diagnostic techniques, material selection, and intervention strategies becomes critical. The course provides a balance between theory and practical application through case studies, technical analysis, and group exercises.

## Objectives

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

- Conduct structural and functional condition assessments
- Diagnose types and causes of building deterioration
- Select appropriate rehabilitation and repair techniques
- Evaluate when to repair, reinforce, or rebuild
- Prepare technical reports and rehabilitation strategies
- Understand cost estimation, resource planning, and compliance

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## Why Attend

- Learn industry best practices in structural diagnostics and decision-making
- Engage in hands-on modules that simulate real-world repair scenarios
- Gain critical insights into materials, technology, and regulatory compliance
- Increase your ability to manage complex repair projects from start to finish
- Earn professional development and certification recognition

## Target Audience

- Civil and structural engineers
- Maintenance and facility managers
- Architects and urban planners
- Real estate asset managers
- Government officials in infrastructure & building departments
- Contractors and site supervisors

## Individual Benefits

- Master practical tools to assess and plan structural repairs
- Improve technical documentation and reporting skills
- Make better decisions on repair vs. replacement
- Increase professional value and career advancement opportunities

## Organizational Benefits

- Enhance in-house capabilities for maintaining structural integrity
- Reduce long-term maintenance costs and avoid project delays
- Mitigate risks through improved repair strategy planning
- Ensure compliance with local and international standards

## Instructional Methodology

- Expert-led lectures and presentations
- Case study discussions and benchmarking
- Group exercises and diagnostic simulations
- Interactive Q&A and real-world examples
- Final assessment and certificate ceremony

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## Course Outline

**DETAILED 5-DAY COURSE OUTLINE (Customizable) Training Hours: 07:30 AM – 03:30 PM** Daily Format: 3–4 Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

**Day 1: Building Assessment Foundations**

- Module 1 (07:30 – 09:30) – Introduction to Building Rehabilitation and Repair
- Module 2 (09:45 – 11:15) – Common Structural Failures and Deterioration Mechanisms
- Module 3 (11:30 – 01:00) – Surveying & Visual Inspection Techniques
- Module 4 (02:00 – 03:30) – Data Recording, Damage Mapping, and Report Writing

**Day 2: Condition Evaluation and Diagnosis**

- Module 5 (07:30 – 09:30) – Non-Destructive Testing (NDT) Methods
- Module 6 (09:45 – 11:15) – Structural Health Monitoring Systems
- Module 7 (11:30 – 01:00) – Diagnosing Root Causes and Performance Gaps
- Module 8 (02:00 – 03:30) – Case Study: Diagnosing Multi-Storey Concrete Structures

**Day 3: Design & Planning of Repairs**

- Module 9 (07:30 – 09:30) – Principles of Repair Design and Decision-Making
- Module 10 (09:45 – 11:15) – Material Selection for Rehabilitation (FRP, Steel, Grouts, etc.)
- Module 11 (11:30 – 01:00) – Load Evaluation and Structural Strengthening Techniques
- Module 12 (02:00 – 03:30) – Safety and Temporary Support Systems

**Day 4: Implementation and Supervision**

- Module 13 (07:30 – 09:30) – Repair Execution: Scheduling, Teams, and Quality Control
- Module 14 (09:45 – 11:15) – Supervision Strategies and Contractor Coordination
- Module 15 (11:30 – 01:00) – Cost Estimation and Budget Planning
- Module 16 (02:00 – 03:30) – Legal Aspects and Compliance with Building Codes

**Day 5: Final Integration and Evaluation**

- Module 17 (07:30 – 09:30) – Preparing and Reviewing Technical Reports
- Module 18 (09:45 – 11:15) – Lifecycle Cost Analysis and Long-Term Planning
- Module 19 (11:30 – 01:00) – Final Workshop: Rehabilitation Strategy Planning
- Module 20 (02:00 – 03:30) – Group Presentations, Wrap-Up, and Certificate Ceremony

## Certification

Participants will receive a Certificate of Completion upon full attendance and successful participation in group exercises and the final evaluation.

## 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.

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| **In-House / Customized Training**<br>Interested in running this course for your team?<br>Please contact us: | TEL:<br>**+601116373203** | EMAIL:<br>**info@mawaevents.net** |

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