MAWA EVENTS

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

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

ASSESSMENTS AND TECHNICAL REPORTS OF ENGINEERING STRUCTURES

"Evaluate with Precision. Report with Impact."

Schedule

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

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

Introduction

This course offers practical training in assessing structural integrity and documenting findings in technical reports. Participants will learn the methods for condition evaluation of buildings, bridges, plants, and infrastructure—plus how to communicate results clearly through structured, professional reporting formats.

Objectives

- Identify signs of structural distress and deterioration
- Perform accurate condition assessments using various tools
- Interpret inspection data and correlate with standards
- Write clear, concise, and professional technical reports
- Communicate engineering findings to stakeholders effectively

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Why Attend

- To develop the ability to assess real-world structural issues
- To improve your technical documentation and engineering communication
- To contribute to safe design, rehabilitation, and decision-making processes
- To meet professional and regulatory reporting requirements

Target Audience

- Civil and Structural Engineers
- Asset and Maintenance Engineers
- Site Inspectors and QA/QC Teams
- Engineering Consultants
- Project Managers and Owners

Individual Benefits

- Gain skills in visual and technical structural assessment
- Improve clarity and quality of your technical reports
- Boost your credibility in audits, inspections, and presentations

Organizational Benefits

Upon completing the program, organizations will:

- Improve asset reliability and service life of structures.
- Reduce risks and costs associated with failures.
- Ensure compliance with international standards and safety regulations.
- Have a stronger foundation for maintenance and rehabilitation decisions.

Instructional Methodology

The course follows a practical and interactive approach combining theory with practice:

- Strategy Briefings – Structural assessment methodologies and reporting frameworks.
- Case Studies – Real-world examples of structural evaluations.
- Workshops – Hands-on exercises in preparing reports and analyzing structural data.
- Peer Exchange – Group discussions on challenges in assessment and reporting.
- Tools – Templates for inspection checklists, evaluation criteria, and reporting formats.

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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 – Structural Evaluation Basics

- Module 1 (07:30–09:30): Overview of Structural Systems & Failure Modes
- Module 2 (09:45–11:15): Causes of Damage & Types of Distress
- Module 3 (11:30–01:00): Introduction to Engineering Assessments

Day 2 – Inspection Techniques & Tools

- Module 4: Visual and Manual Inspection Methods
- Module 5: Non-Destructive Testing Techniques (NDT)
- Module 6: Use of Drones, Scanning, and Modern Tech

Day 3 – Data Interpretation & Evaluation Standards

- Module 7: Interpreting Defects – Structural vs. Cosmetic
- Module 8: Assessment Criteria Based on International Codes
- Module 9: Prioritization and Risk-Based Evaluations

Day 4 – Technical Report Writing Essentials

- Module 10: Structure and Components of Engineering Reports
- Module 11: Visual Documentation – Photos, Sketches, Diagrams
- Module 12: Language, Formatting, and Reporting Tools

Day 5 – Practical Reporting Workshop

- Module 13: Analyze Case Files & Write Full Technical Report
- Module 14: Peer Review and Group Critique
- Module 15: Instructor Feedback and Final Presentations

Certification

Participants will receive a Certificate of Completion after attending all sessions and submitting a sample report.

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? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**

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