

## RESIDENTIAL BUILDING ENVELOPE AND STRUCTURE ASSESSMENT ميري قوت ةيئاشنالا لكايهلاو ينابلال فالغ

"Enhancing Safety and Sustainability in Residential Buildings - From Foundation to Roof"

### Schedule

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

► Available delivery methods: In-House Training

### Introduction

This course provides a full technical overview of how to assess and analyze the building envelope and structural components of residential buildings. It covers foundations, walls, roofs, windows, and insulation systems while focusing on identifying deterioration, thermal inefficiencies, moisture issues, and structural weaknesses using modern techniques and inspection tools.

### Objectives

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

- Understand the functions and components of residential building envelopes.
- Conduct systematic inspections of structural and envelope systems.
- Identify defects such as cracks, water ingress, insulation failures, and material degradation.
- Apply diagnostic tools and assessment techniques.
- Prepare technical reports with recommendations for repair and maintenance.

## Why Attend

- Learn comprehensive methods for evaluating both building envelopes and structural integrity.
- Gain practical skills for diagnosing common residential building issues.
- Enhance compliance with safety, sustainability, and energy efficiency standards.
- Minimize risks and long-term maintenance costs through proactive assessments.

## Target Audience

This program is designed for:

- Civil & Structural Engineers
- Building Inspectors & Surveyors
- Facilities & Maintenance Managers
- Project Managers in Residential Construction
- Government Housing Authorities & Regulators
- Consultants in Building Design and Sustainability

## Individual Benefits

Participants will:

- Strengthen skills in inspection and assessment of residential buildings.
- Enhance diagnostic and reporting abilities.
- Gain confidence in identifying and addressing risks.
- Improve career growth opportunities in construction, inspection, and asset management.

## Organizational Benefits

Upon completing the training, organizations will:

- Improve housing safety and reliability.
- Reduce costly repairs by identifying issues early.
- Ensure compliance with energy efficiency and sustainability standards.
- Enhance reputation through high-quality residential building performance.

## Instructional Methodology

The course follows a practical and interactive approach:

- Strategy Briefings – Key principles of building envelope performance and structural assessment.
- Case Studies – Examples of residential building failures and successful repairs.
- Workshops – Hands-on exercises for defect detection, reporting, and repair planning.
- Peer Exchange – Group discussions on challenges in residential building assessments.
- Tools – Checklists, templates, and reporting formats for practical application.

## 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

### ةئائشإنإل ةمظنأل او مئقئال تاساسأ: لوال موئل

- ةئكسلل ينابم لل ةئائشإنإل ةمظنأل عل ةلماش ةرظن: 1 ةءول
- لامأل ةءءو ءاو ملل ةئائشإنإل ءولسل: 2 ةءول
- ةئائشلل ةئكسلل ينابم لل ءش ف تائل: 3 ةءول

### ةلءول رئلءم او مئقئال ءاوءأ: ئئال موئل

- ءءاءل او ينابم لل ةءلءل ءءءل ءءل ءئقئ: 4 ةءول
- ءمالسل مئقئال (IBC, ASTM, ISO) ةئلءول ءءول: 5 ةءول
- ءئصوءل او مئقئال رئلءل ءءءل ءءءل: 6 ةءول

### ءءءال ئنبلل ءالء مئقئال: ئئال موئل

- ءئلل برسل ءءصو لءل ءل ءل ءل ءل ءل ءل ءل ءل ءل: 7 ةءول
- ءئلءل او رئلءل برسلل - ءءءل ءل ءل ءل ءل ءل ءل ءل ءل: 8 ةءول
- ءلءل ءءءل ءل ءل ءل ءل ءل ءل ءل ءل ءل: 9 ةءول

### ئلئلصءل ءل ءل ءل ءل ءل ءل ءل ءل ءل: ءلءل موئل

- ءلءل ءل ءل ءل ءل ءل ءل ءل ءل ءل: 10 ةءول
- ءلءل ءل ءل ءل ءل ءل ءل ءل ءل ءل: 11 ةءول
- ءلءل ءل ءل ءل ءل ءل ءل ءل ءل ءل: 12 ةءول

### رئلءل ءءءل ءل ءل ءل ءل ءل ءل ءل ءل: سءلءل موئل

- ءلءل ءل ءل ءل ءل ءل ءل ءل ءل ءل: 13 ةءول
- ءلءل ءل ءل ءل ءل ءل ءل ءل ءل ءل: 14 ةءول
- ءلءل ءل ءل ءل ءل ءل ءل ءل ءل ءل: 15 ةءول

## Certification

Participants will receive a Certificate of Completion upon successful completion.

## 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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