

€ TRAINING

Construction and Building Envelope
Inspection





Construction and Building Envelope Inspection

Introduction:

This training program is designed to equip participants with the essential skills and knowledge needed for effective inspection of construction projects and building envelopes. It empowers them to identify issues early and ensure high-quality construction and maintenance.

Program Objectives:

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

- Understand the principles of building envelope inspection.
- Learn techniques for inspecting various components of the building envelope.
- Gain proficiency in identifying and diagnosing common issues.
- Develop skills for ensuring compliance with standards and regulations.
- Implement best practices for maintaining building envelope integrity.

Target Audience:

- Construction inspectors and supervisors.
- Building envelope consultants.
- Facility managers and maintenance personnel.
- Architects and engineers.
- Quality assurance professionals in construction.

Program Outline:

Unit 1:

Principles of Building Envelope Inspection:

- Understanding Building Envelope Components.
- Importance of Building Envelope Inspection.
- Key Inspection Objectives and Standards.

- Types of Building Envelopes Residential, Commercial, Industrial.
- Regulatory and Compliance Considerations.

Unit 2:

Techniques for Inspecting Building Components:

- Roof Inspection Techniques.
- Wall Systems and Cladding Inspection.
- Window and Door Inspection.
- Foundation and Basement Inspection.
- Inspecting Thermal and Moisture Barriers.

Unit 3:

Identifying and Diagnosing Issues:

- Common Building Envelope Issues Leaks, Cracks, Insulation Failures.
- Techniques for Identifying Moisture Intrusion.
- Diagnosing Structural Issues.
- Use of Inspection Tools and Technology.
- Documenting and Reporting Findings.

Unit 4:

Ensuring Compliance with Standards and Regulations:

- Relevant Building Codes and Standards.
- Compliance Assessment Techniques.
- Role of Inspections in Building Certification.
- Interaction with Regulatory Authorities.
- Case Studies on Compliance Failures and Corrections.

Unit 5:



Best Practices for Maintaining Building Envelope Integrity:

- Preventive Maintenance Strategies.
- Repair and Restoration Techniques.
- Energy Efficiency Considerations.
- Implementing Quality Assurance Programs.
- Future Trends in Building Envelope Technology.