



MALONE ASSOCIATES LTD

BUILDING TECHNICAL EXCELLENCE

**Chartered Building Consultants & Chartered Building Engineers
Building Surveys, Project and Asset Management, Design & Specification,
Works/Contract Management & Asbestos Management.**

Specialist in independent damp investigations & building defect analysis
www.maloneassociatesltd.co.uk

Training Course Proposal: Building Defect Analysis: From foundations to roof

Relevant for: Building Surveyors and Responsive Repair Maintenance and Technical officers



Joe Malone BSc(Hons), P402 Cert. MCIQB, MCABE
Principal: Malone Associates Ltd



Landline: 0800 0437732 Mobile: 07447 030254
Email: joe@maloneassociatesltd.co.uk
Suite 3, First Floor, 926 Woodborough Road, NG3 5QS



Introduction

Malone Associates are one of the leading UK experts in damp investigation and remediation. We have been teaching the subject since 2006 and currently teach the subject to undergraduates at Coventry University and Surveyors and Maintenance/technical officers across the UK. Our current client list includes Wrexham Council, Islington and Shoreditch Housing Association, Metropolitan Housing, Weaver Vale Housing Trust and many more.

We believe that our one day course in damp investigation and remediation is the best course available in the UK and based on the strength of demand for that course have extended our training provision to include a one day course in building defect analysis. We are one of the leading UK experts in faults and failures of external wall insulation systems and believe that Social Landlords need to be made aware of issues and failures of EWI systems. We are published technical writers on the subject (The Risky Business of Covering Up, Construction Research & Innovation Journal, December 2013) and incorporate a session on EWI system failures into our training course.



Figure 1. Defects being built into £3m EWI scheme

We would like to offer you this course at an incredibly reasonable rate of £195.00 per course attendant. Maximum of 15 course participants, and the maximum number of staff you will pay for is 13. This means you can have 13 staff trained for a one off cost of £2535.00. A cost which will recoup itself many times over as soon as your staff put their newly acquired knowledge to good use. We genuinely believe that that this is the best value training you will buy in this year and that it is also critical for any providers who are specifying EWI systems or have already had EWI systems installed.

We believe that what we offer is the best available in the UK. We have outlined the course content and objectives below.

Outline of Course Content

This is an intensive but enjoyable 8 Hour training course dealing with the principles of building defect analysis and building pathology.

The course covers subsidence and crack interpretation, crack monitoring and repair.

Candidates will use and familiarize themselves with the methods available for crack monitoring and learn why it is important to establish whether buildings are still moving or static before specifying remedial works.

Candidates will learn about failures in brickwork and masonry, learn what remedial



techniques are available and learn what actions can be taken to prevent premature failure in brickwork and masonry. They will also learn about cladding and curtain walling defects.

Candidates will learn about concrete defects, including sulphate attack, carbonation, ASR, chloride attack, construction defects and in particular how these issues relate to non-traditional housing stock.

Candidates will learn about failures in external wall insulation and why these are happening, they will learn how to properly manage the site installation process to minimise the risk of failures and they will learn what testing needs doing beforehand to ensure the specification contains all the essential elements to guard against failure in these systems.

They will learn about defects in pitched and flat roofing, learn how to spot those defects and how best to implement remedial action and make the most cost effective decisions on repair options.

They will learn about flooring defects, including dampness in floor slabs, sulphate attack, Magnesite flooring, timber decay and insect attack.

Candidates will be taken through a range of defects being frequently seen in new development and learn why the NHBC warranty does not afford developers or new homeowners with the level of protection they might have expected.

Finally candidates will be taken through a number of case studies relating to the analysis of building defects that cover a range of issues.

Objectives

1. To understand the dangers of EWI systems if not properly specified or managed.
2. To give candidates a broad understanding of crack interpretation in buildings, how to establish whether or not buildings are still moving and how to specify remedial works relating to cracked buildings.
3. To give candidates a broad understanding of roofing defects both in pitched and flat roofing and to further their skills in being able to diagnose these defects and specify remedial work.
4. To understand the causes of concrete failure and to further understand how this relates to non-traditional housing stock, including high-rise blocks, and to further understand how best to deal with these failures and specify remedial work.
5. To understand the wide range of defects that can affect concrete and timber floors and learn how to specify remedial works.
6. To understand the wide range of defects being frequently seen in new build housing and to further understand why the NHBC Buildmark warranty does not cover many of these defects and is leaving new homeowners with large repair bills.
7. To give candidates some practical insight into defects in pitched and flat roofing to help them understand how best to implement repairs or remedial work.
8. To give candidates some practical insight into several case studies relating to building defect analysis.



Handouts

Candidates will be issued with a full set of course notes and issued with a certificate of completion within 7 days of course completion.

A handwritten signature in cursive script, reading "Joe Malone".

Joe Malone BSc(Hons) P402 Cert. MCIQB, MCABE

Director, Malone Associates Ltd