



**Course Title:** Masonry Building Conservation- Principles and Techniques P2 - Professional Level 2

**Duration:** 3 days (9.30am-4.30pm)

**Course Description:**

Through a programme of classroom and practical activities, this 3 day workshop aims to provide confidence in the relevant repair principles, materials and techniques for traditional masonry buildings, covering mortar manufacture, practical repair methods and techniques, and aftercare of lime based materials.

The course provides sufficient underpinning and practical knowledge of materials to enable effective development of specifications, supervision and snagging of the conservation works including repointing, stone indents, surface repair of stone, grouting, renders and harls and limewash.

**Attendees must have completed 'P1 Introduction to Masonry Repairs in Traditional Buildings'**

**Learning Outcomes:**

Understanding of building conservation philosophy and best practice.

Development of repair strategies including consideration of their cost effectiveness.

Understanding traditional mortars, how to specify and replicate them.

Understanding advanced mortar manufacture.

Ability to understand considerations in relation to matching and specifying natural stone replacements.

Understanding of conditions where specification of surface repair of stone is suitable.

**Course Outline:**

Day 1 –Conservation principles, advanced lime technology and science

- Health & Safety
- Condition survey and recording of masonry
- Setting characteristics, pore structure and permeability issues of mortars
- Materials for repairs including sampling and analysis of mortars
- 'Hot' lime mixes and gauged 'hot' lime mixes
- Specification and manufacture assessment process

Day 2 –Principles and techniques for masonry conservation

- Obtrusive tile/stone repairs and stitching techniques
- Surface repairs to ashlar and profiled stone
- Renders & Harls - Suction bonds, designing mortars and application of base coats
- Repointing ashlar masonry
- Second coats for mortar repairs
- Natural stone replacement including full and partial indents
- Manufacture of grouts and methods of grouting

Day 3 –Principles and techniques for masonry conservation

- Advanced surface repairs of stone including final coat mortars and replicating tooled surfaces
- Materials for consolidating delaminating stone
- Render & Harls – application of finish coats
- Lime wash and paint finishes

**Suitable for:** This course follows on from 'P1 Introduction to Masonry Repairs in Traditional Buildings' and is aimed at those who work with, own or are responsible for traditional buildings. Suitable for building and heritage professionals such as architects, surveyors or planners the course would also be of interest to homeowners, those responsible for maintenance works to buildings such as churches or those considering a renovation or conversion project. We are always happy to help learners choose the right course. Please contact us if you would like to discuss which course is suitable for you.