ABOUT US

The Scottish Lime Centre Trust promotes the knowledge and traditional skills required for the conservation, repair and maintenance of the historic built environment. We work nationally and internationally to provide advice, guidance and traditional skills training for anyone dealing with a historic structure, be it an A-listed castle or a garden wall.

We run a wide range of traditional building skills courses for all throughout the year alongside bespoke and on-site training for your team.

We also have an advisory team that provides independent advice and guidance for projects involving the conservation and repair of traditional buildings and an in-house laboratory for materials analysis and assessment.

Scottish Lime Centre Trust is a charity registered in Scotland No: SCO22692.

OUR SPONSORS

Historic Environment Scotland make an annual contribution to our seminar and vocational college and university groups to attend workshops about traditional building technology.
The Scottish Lime Centre Trust runs two different training centres including lecture facilities and indoor and outdoor working areas. These are located at:

**Charlestown Workshops**, Rocks Road, Charlestown, Fife KY11 3EN

**Merryhill Training Centre**, Merryhill Steading, Charlestown, Fife KY11 3DR

For detailed information about how to find our training centres please visit the ‘find us’ page on our website: [http://www.scotlime.org/en/find-us/](http://www.scotlime.org/en/find-us/)
TRADITIONAL SKILLS TRAINING COURSES SUMMARY

We run a wide range of courses including traditional building skills for repair and conservation throughout the year, as well as masterclasses from beginner to advanced level and beyond. The courses have been put into broad categories but please take a look at them all and if you’re not sure then please contact us if you would like to discuss which course is suitable for you or your employees. We are always happy to help learners choose the right course.

COURSES FOR BUILDING PROFESSIONALS, SITE MANAGERS & STUDENTS OF THE BUILT ENVIRONMENT

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<thead>
<tr>
<th>COURSE DESCRIPTION</th>
<th>START DATE</th>
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Please note: We are constantly adding dates and courses to our schedule so please visit our website to download the latest version of this brochure: [http://www.scotlime.org/en/courses/](http://www.scotlime.org/en/courses/)

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<tr>
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<td>2018</td>
<td>09:30 - 16:30</td>
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Notes Key:
- CW - Charlestown Workshops, Fife
- MH - Merryhill Training Centre, Fife
- HES - Sponsored by Historic Environment Scotland.
- SQA - SQA Accredited Course
- TBC - Dates to be confirmed

Our course prices include all required materials and refreshments. A light lunch is provided on full day courses.
COURSES FOR BUILDING PROFESSIONALS, SITE MANAGERS & STUDENTS OF THE BUILT ENVIRONMENT

These courses are designed for people with a good understanding of the general issues related to building conservation but no previous experience of practical work is required.

These courses include both theory and practical work.

For full course descriptions and learning outcomes please refer to our website.

Repairing Traditional Masonry-Professional Level 1 (P1)
This is our most popular 2 day workshop for building professionals and provides an introduction to the effective conservation and repair of traditional masonry structures and buildings, for the most part using traditional lime based mortars.

By the end of the course attendees will be able to recognise vernacular and historic finishes to masonry buildings and will gain an understanding of building diagnostics in order to be able to develop specifications in relation to exposure, season, substrates and the nature of masonry repairs required.

Course length: 2 Days

Masonry Building Conservation-Principles & Techniques-Professional Level 2 (P2)
Attendees must have completed P1 course

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.

Course length: 3 Days
Above Eaves Level P1 – Traditional Slate Roofs

This two day course aims to provide an introductory guide to traditional Scottish roofs including function, structure, types of trusses, external roof shapes, typical details and decorative features and the causes of deterioration and the main causes of failure. Practical work includes sizing and trimming of slates, setting out and nailing a simple traditional slate roof, undertaking repairs, executing a mortar skew fillet and installing rainwater goods correctly of a traditional slate roof.

Please see our website www.scotlime.org for further course details.

Specifying Hot Mixed Lime Mortars

This one day workshop aims to provide an introductory guide to the preparation and use of ‘hot mixed’ lime mortars, that is, mortars prepared by slaking quicklime, sand and natural hydraulic lime binders (and possibly other additives like tallow or pozzolans) to more closely mimic the appearance and technical performance of conservation mortars and in some cases offer advantages in use and technical performance over more conventional ‘cold mortars’.

By the end of the course, attendees will be able to recognise traditionally made ‘hot mixed’ mortars in historic structures and buildings and be able to develop the skills to specify ‘hot mixed’ mortars in relation to authenticity, performance, exposure, season, substrate and nature of the masonry repairs required.

Did you know... we have a Buildings Advisory Service

Our Buildings Advisory Service is here to help you achieve the best possible results from your projects. Our services include:

• Inspection & Investigation of Historic Buildings;
• Identification & analysis of surface finishes;
• Recommendations for conservation work;
• Preparation of job specifications;
• Project management;
• Troubleshooting;
• Active site advice;
• Advice on the use of lime mortar in new builds.

If you would like to know more about these services get in touch by phone or visit our website for more information:

COURSES FOR CONTRACTORS

These courses are designed for professional contractors and those with good tool skills who regularly carry out practical work.

These courses include some theory but the focus is on practical training.

Making and Using Traditional Mortars—Contractor Level 1 (C1)

This is our most popular practical workshop and will provide attendees with a strong understanding of lime technology, how to approach re-pointing work in traditional buildings and the correct materials to use.

The reasons for using traditional mortars will also be explained to allow you to better advise clients and the course will enable participants to complete pointing on traditional buildings to high standards. Topics covered include - inspecting masonry, understanding materials accurately, proportioning materials, preparing masonry joints and curing and protection regimes.

The content of this workshop provides the underpinning knowledge required for assessment and accreditation of SQA National Unit 1 – ‘Preparing and Using Basic Lime Mixes’.

Traditional Masonry Repair—Contractor Level 2 (C2)

Attendees must have completed C1.

This workshop builds on the knowledge and skills gained on the C1 course. The workshop aims to enable you to complete seamless rebuilding and repair of traditional masonry to match original work. You will develop a conservation ethic and be able to develop repair strategies suitable for a variety of traditional masonry types.

The course deals with build types from ashlar to rubble walling, as well as finishes including harling and limewashing. Participants will be able to undertake sensitive surface repairs to ashlar and profiled stone to the highest standards using indenting, part indenting and mortared surface repairs.

The content of this workshop provides the underpinning knowledge and a practical rehearsal of the assessment and accreditation procedure for SQA National Unit 2 and Unit 3.
Introduction to indigenous earth building traditions and techniques EB1

This new 2 day course complements our existing range of courses for the repair, conservation and maintenance of traditional buildings and bridges a knowledge and experience gap required for the effective repair, conservation and maintenance of earth constructed buildings which unknowingly abound our landscape in Scotland. Tutors, Becky Little (Rebearth Ltd) and Tom Morton (Arc Architects) have over 25 years’ of experience working with both earth here and abroad and they will share their knowledge across a range of disciplines, including sourcing and testing materials, mixing and making samples, building and repairing structures and applying finishes.

Intensive Training & Assessment (C1, C2 & National Units SQA)-Contractor Level 3 (C3)

This intensive week of training and assessment will combine our courses ‘C1 Making and Using Traditional Mortars’ and ‘C2 Traditional Masonry Repair’ with continued assessment to allow you to gain our SQA National Units 1, 2 & 3 in Conservation Masonry within five days.

This week is only suitable for those with trowel and masonry building skills and wishing to gain formal qualifications.

Making & Using Hot Mixed Lime Mortars

This one day workshop aims to provide an introductory guide to the preparation and use of ‘hot mixed’ lime mortars, that is, mortars prepared by slaking quicklime, sand and natural hydraulic lime binders (and possibly other additives like tallow or pozzolans) to more closely mimic the appearance and technical performance of conservation mortars and in some cases offer advantages in use and technical performance over more conventional ‘cold mortars’. More and more clients and specifiers are asking building contractors to make and use ‘hot mixed’ mortars on their repair jobs, so get ahead of the game and brush up your knowledge and skills with us.
Rubble Wall Building

This practical two day course will equip you to set out, construct and finish a traditional rubble wall using a variety of building stones and traditional lime mortars. The importance of laying the stones correctly and the use of pinning stones will be emphasised so that no more than 30% of the volume of the wall is mortar!

The content of this workshop provides part of the underpinning knowledge required for assessment and accreditation of SQA National Unit 3 – ‘Conservation Masonry’.

Basic Masonry Skills

By popular demand, we have introduced this new two day course which is suitable for those with limited or no experience and wish to attain basic stonemasonry skills on natural sandstone blocks.

Learners will be introduced to the tools and materials required to produce a flat surface on a block of sandstone and then effect different surface tooling with margins as found on many of our historic buildings. Learners can take home their practice stones at the end of the day.

Surface Repair of Stone

In many cases, simple surface repairs can be less intrusive and a suitable alternative to replacing masonry units with new stone. You will be amazed at the results you will be able to achieve after only two days!

This course is designed to ensure successful surface repairs to flat work, angles, corners and moulded details. The decay mechanisms of stone will be discussed and we will consider the factors that should be taken into account when deciding if a surface repair is a suitable alternative to replacement with new stone.
1 Day Rendering with Lime

This course will enable you to apply a variety of lime render finishes to a wide range of backgrounds including matching to existing finishes. Both hand cast and mechanical applications will be covered and attendees will gain an understanding of a range of surface finishes that can be achieved.

This course is relevant for both the reinstatement of traditional lime finishes and for new build applications. This practical course is aimed at building contractors and those undertaking repair works to traditional masonry structures.

Course length: 1 Day

Rendering and Harling with Lime

Many, many historic buildings were finished in lime mortars externally and then handsomely limewashed to provide both protection and decoration.

This course will enable you to apply a variety of external lime finishes including formal 'lined out' work to less formal textured harled finishes to a wide range of background types including matching in to existing finishes. Attendance at this two day workshop will let you get to grips with both hand casting and mechanical application techniques to effect a range of surface finishes and is relevant for the reinstatement of traditional lime finishes and for new build applications.

Course length: 2 Days
COURSES FOR HOMEOWNERS, PEOPLE RESPONSIBLE FOR TRADITIONAL BUILDINGS & ANYONE SEEKING NEW SKILLS

These courses are designed for people with no previous knowledge of the course subject and are suitable for people wishing to learn new skills or refresh their knowledge.

These courses include both theory and practical work.

Lime Pointing

This popular one day workshop is aimed at those who would like to undertake repointing works as part of a renovation project or simply as general maintenance to traditional masonry structures. A practical ‘hands on’ training day, attendees will learn to undertake repointing works to with confidence.

This course will give a sound understanding of traditional building technology, repair techniques and the materials to use when carrying out repointing. Attendees are encouraged to bring along images of their projects to discuss with the SLCT tutor on the day.

Drystone Walling

Would you like to add drystone walling to your skill set?

This one day workshop is aimed at anyone who would like to learn the basics of dry stone walling to give a thorough understanding of the techniques required to produce quality drystone work.

Although attendees will learn to build a new drystone wall, they will also gain the techniques needed to undertake repairs to existing structures.
Letter Cutting in Stone

This professionally taught course is an excellent introduction to cutting letters in stone using hand tools. During the course students are introduced to the basics of both classical and contemporary letter forms by means of the creation of a simple inscription from initial design through to cutting and finishing techniques.

This is an ideal starting point for those interested in both the setting out & application of cutting letters in stone.

Decorative Stone Carving

This course is intended to give students the skills and knowledge to be able to produce good quality architectural carvings in stone. Attendees will gain knowledge in designing, planning and a range of carving styles guided by our experienced expert tutor. Attendees are encouraged to explore and develop their own image for carving and the course covers how to handle tools and basic carving techniques.

The course tutor will give practical demonstrations on each section of the course and guided carving will take place throughout the day. Attendees will be able to create a finished piece of carved work to take home.

Sash & Case Window Repairs

Don't rip out your sash and case windows, did you know that in most cases you can undertake simple repairs and retain these period features?

This practical course will prove invaluable if you have a property with Sash and Case Windows.

We will cover a short history of the development of windows before looking at the different components that make up a window and the issues to consider when approaching repairs.
SEMINARS FOR BUILDING PROFESSIONALS, Site Managers, BUILDING CONTRACTORS & STUDENTS OF THE BUILT ENVIRONMENT

These courses are designed for people with a good understanding of the general issues.

These courses are mainly classroom-based but some practical demonstrations are included.

CE1 - Introduction to Lime Based Mortars and Traditional Materials for the repair of Civil Engineering Structures

This one day introductory workshop introduces the range of lime and early patented cement based mortars that have been used in the past for the construction of masonry arch bridges, culverts, tunnels, light houses, viaducts, canals, harbours, retaining walls, piers and other masonry structures which contribute so much to the richness of our built heritage.

CE2 - Masonry Consolidation Techniques for the Repair of historic buildings and structures

This workshop is the follow on course from CE1 Introduction to lime based mortars and traditional materials for the repair of civil engineering structures and covers two major techniques for consolidating masonry structures, namely grouting (with a liquid mortar) and concealed crack stitching. These are techniques that may be applicable for the repair of masonry arch bridges, culverts, tunnels, lighthouses, viaducts, canals, harbours, retaining walls, piers and other masonry structures which contribute so much to the richness of our heritage.
Repair and Maintenance of Masonry Arch Bridges

This one day masterclass looks at all aspects of masonry arch bridge construction and the materials utilized to determine the most appropriate repair schemes. It is suitable for building professionals, contractors, engineers and others involved in heritage work.

Topics covered include: How arches and vaults work, Stone arches - defects and remedies, Non destructive investigation of masonry arch bridges, Specifying mortars for masonry arch repairs, Analysing complex arching structures, Masonry arches supporting public roads - case studies from Sligo County Council and Helifix Bridge Repairs & Strengthening

The Structural Repair of Historic Buildings

The aim of this seminar is to provide professionals with a sound understanding of the philosophy of conservation and a better understanding of the relationship between structural engineering and conservation, of safety issues and of the aesthetics of conservation based structural repairs. Led by Ian Hume this will consist of lectures, case studies and group activities. It will examine the philosophy of conservation from a structural engineering point of view and will look at some structural repair methods for masonry, metal and timber. The course is copiously illustrated with case studies of work carried out by Ian Hume over the last 40 years whilst working for English Heritage and in private practice.

Damp in Buildings Masterclass

This is the unmissable Masterclass of the year! We are pleased to welcome back Mike Parrett, one of the world's leading building pathologists and co-author of the RICS' bestselling book ‘Diagnosing Damp’, recognised as the primary reference work on dampness in buildings.

After decades of sales-led solutions, Mike Parrett's back to basics approach gets to grips with where damp comes from – and offers real, practical advice on how to deal with it.

Mike will also be addressing the very real issues that are likely to result from the increase in the deluges of rainfall we have all been experiencing in the last few years, ‘cutting edge’ stuff for real.
Winter Working with Lime

Join us for the ultimate guide to winter working with lime! Our hints, tips and practical advice will help you extend your season working with lime mortars successfully. The reality is that contracting is a 365 days a year business and you don’t have the luxury of picking your weather windows.

This half day course will be delivered at Penicuik House as part of the Penicuik House Project and is aimed at anyone who works with traditional buildings or structures. The day will consist of a mixture of lecture and practical demonstrations.

Mortar Analysis Explained

Many projects demanded that samples of historic mortars be analysed and it is all too often a ‘tick box’ exercise required to gain listed building consent or to meet funder’s requirements. However analysis of existing and historic mortars is an important step in the creation of well matched and appropriate mortar specifications for undertaking successful repairs.

This seminar will allow attendees to gain a greater understanding of the process of mortar analysis and to be able to understand and use the results of mortar analysis to create better specifications for replacement mortars.

Stone Analysis Explained

Many conservation projects require the replacement of structurally compromised stone and will require stone analysis and matching in order to find currently available sources of compatible replacement stone. Stone analysis may also be required to gain listed building consent or to meet funder’s requirements.

This seminar will allow attendees to gain a greater understanding of the process of stone analysis and be able to understand and use the results of stone analysis to create better specifications for replacement stone masonry units.
BESPOKE TRAINING

We frequently assist building contractors on their building sites to successfully complete conservation, repair and restoration projects. We work with contractors to set up the site to ensure there is an appropriate site mixing area for producing consistent, repeatable mortar mixes to ensure conformity to the specification. On some projects there can be up to 5 or 6 different mortar mixes for difference elements of a building, from foundation work, different coats of render to high level exposed elements such as parapets and chimneys so getting this right from the start is crucial.

We ensure with the contractor that the scaffolding is ‘fit for purpose’ to undertake the works and provide a framework for hanging appropriate protection. Then we get to work with the contractor in preparing walls for pointing or rendering in a methodical manner, never working over finished work which usually means it is a ‘top-down’ process. Our involvement can be as little or as much as the contractor is comfortable with, plus we can visit site at intervals to give the contractor comfort that the job is going to plan and that the quality of the work is second to none.

ON SITE TRAINING

If your company or organisation would like a course written specifically for a particular job or one that meets the particular knowledge and skills for your field of work then the Scottish Lime Centre Trust can help. In the past we have delivered bespoke courses to contractors, architectural, surveying and engineering practices specifically for their exacting requirements. More recently we have been assisting local authority planners through a programme of bespoke Continuing Professional Development (CPD) to assess when sash and case windows are still in scope for repair rather than being needlessly replaced, a more sustainable solution.
We wouldn't want you to miss out if the cost of our courses is an issue! That's why we are always trying to find ways of helping you cover the cost of attending our courses. See below for current funding opportunities:

**Historic Environment Scotland**
Historic Environment Scotland offer various training grants ([details available on their website](http://www.historicenvironment.scot/) including up to £1,000, as part of their 'Conservation Training Grants Scheme', towards the cost of courses for those involved in evaluating, specifying and undertaking works to building fabric to extend their knowledge and skills base. The aim being to raise technical standards in the conservation, repair and maintenance of traditional buildings in Scotland.

**Conservation Area Regeneration Scheme (CARS), Historic Environment Scotland**
Funding is available for those within an area covered by a Conservation Area Regeneration Scheme (CARS), which can go towards our traditional skills training courses. Details of the areas covered by CARS can be found on the Historic Environment Scotland website. You will need to liaise directly with your local authority if you wish to access the available funding.

**Townscape Heritage Initiative (THI) Programme, Heritage Lottery Fund HLF**
Funding for training is available for those living in an area that has been given a THI grant. You will need to contact the appropriate THI Project Officer to find out about available funds.

**Construction Industry Training Board**
If more than 50% of your business is construction work, then technically you are 'in scope' with the Construction Industry Training Board (CITB) and will be able to access grants towards attending relevant training courses including our own. Additional assistance from CITB Company Development Advisors will help you develop your company’s own training plan. Contact your local CITB office for more details and here is the link to their website [www.citb.co.uk](http://www.citb.co.uk).

For more information please contact us on 01383 872722 or visit our website [http://www.scotlime.org/en/funding/](http://www.scotlime.org/en/funding/).