

BUILDING CONSERVATION MASTERCLASSES

CONSERVATION AND REPAIR OF TIMBER

B3D08212 29 APRIL-2 MAY 2019 (3 day course)

This course provides an intensive introduction to historic timber-framed structures. It begins by examining the original methods of framing and construction and then concentrates on problems, failures and methods of repair. The course comprises lectures, case studies, demonstrations, practical exercises, discussions and tours of the Weald and Downland Living Museum's timber buildings, with particular reference to the development of timber repairs undertaken at the Museum over more than forty years. It includes lectures on fungal decay, insect attack and their conservative treatments, with current research and recent case studies on the subject.

While the course takes place at the Weald and Downland Living Museum, **Lunch and evening lectures are at West Dean College.**

Please remember to bring work clothes/overalls and shoes for practical sessions.

Course Leader:

Joe Thompson of Sussex Oak & Iron is carpenter-in-residence at the Weald and Downland Living Museum. He teaches a range of historic carpentry courses at the museum. He has developed a keen analytical eye and a scholar's passion for following and interpreting the evidence along with a natural skill in teaching.

Tutors:

Dr Matt Green works as an urban entomologist specialising in the control of pest insects in and around buildings. He worked for Ridout Associates for several years. He lectures for the SPAB.

Peter McCurdy trained in architecture and has long specialised in repair projects on timber buildings, one of his company's most recent achievements being the reconstruction of Shakespeare's Globe Theatre.

All students on this course will receive a copy of *English Heritage Practical Building Conservation: Timber*.

Recommended Reading:

English Heritage Practical Building Conservation: Timber, 2012, Ashgate Publishing

F. W. B. Charles, *Conservation of Timber Buildings*, Donhead

J. Boutwood, *The Repair of Timber Buildings*, SPAB Publications

R. Harris, *Discovering Timber Framed Buildings*, Shire Publications

B Ridout, *Timber Decay in Buildings*, E & F Spon

K E Larsen and N Marstein, *The Conservation of Historic Timber Structures; An Ecological Approach*, Heinemann.

OUTLINE PROGRAMME

Day 1 Monday

16.00-18.00 Register at Reception Desk

18.45 Welcome Talk

19.00 Dinner

Evening Introduction to course.
Introduction to timber frame buildings, including the basics of timber conversion, construction and use, and regional and chronological traditions

Day 2 Tuesday

Morning Transfer to Museum.

Fungal decay and insect attack – the structure of wood and the mechanisms of decay; recognition and effects upon timber

Treatment of rot and insect attack – dealing with the cause, environmental controls, current research and case studies

	Practical session on timber decay – exploration and discussion on infestation in a variety of timber samples
Afternoon	Historic methods of timber framing - traditional systems of framing; the fabrication process; layout methodology; joints and marking techniques Laying out and marking a simple frame - marking methods and cutting mortice and tenon joints; traditional pegs and fixings Transfer to College.
Evening	Introduction to repair techniques - radical and conservative philosophies; recording techniques; overview of repair methods using timber, steel and resin.
Day 3	Wednesday
Morning	Transfer to Museum View examples of carpentry at Open Air Museum Repairs using timber – assessing defective timbers; the range of timber to timber repairs; the use of iron and steel in conjunction with timber repairs.
Afternoon	Repair demonstrations – evaluating the criteria for a repair; working methodology; tools and their uses; setting out the repair. Fixing and finishing repairs – types of fixings; traditional pegs and fixings; tool marks and surface finishes. Transfer to College.
Evening	Case studies – in-situ repair considerations; temporary support systems; softwood frame repairs (including Long Crendon Courthouse, Harmondsworth Barn, Chatham Dockyard buildings, Barley Hall York.
Day 4	Thursday
Morning	Transfer to Museum Tour of Museum's timber buildings to view repairs, including ones using epoxy resin systems Workshop exercise – assessment, evaluation and repair proposals for selected defective historic timbers; discussion of alternative repair options; specifications for timber repairs.
Afternoon	The reconstruction of the Globe Theatre – an archaeological reconstruction of a timber-framed building.
15.30	Summary, feedback and discussion. Issue of certificates and depart. Transfer to College.

Non-residential course fee £706

Fully inclusive residential course fee:

Standard room with private bathroom facilities £961

Superior room with private bathroom facilities £1,027

HOW TO BOOK

Please complete one booking form, or copy of form, per person per course and enclose a deposit for each course booked. On receipt of your booking, we will send all the further details you will need for your visit, including the course details and your final payment slip. Travel instructions will be sent to all students.

For further information about the course, please contact the Course Organiser: +44 (0)1243 818219 or

cpd@westdean.org.uk

For further information about booking, please telephone the Bookings Office: +44 (0)1243 818300.

Website: www.westdean.org.uk