

EFHC Short Courses 2024/25

Dates	Course	Times	Max no. students	Fee
Sat 26 Oct 2024	Introduction to the centre lathe	10 am to 5 pm	5	£120
Sat & Sun 2 & 3 Nov 2024	Introduction to Basic Metalwork	10 am to 5 pm	6	£240
Sat & Sun 16 & 17 Nov 2024	Introduction to the watchmakers lathe	10 am to 5 pm	6	£240
Sat 7 Dec 2024	Lathe tool and drill sharpening	10 am to 3 pm	10	£75
Sat 25 Jan 2025	Introduction to clockmaking	10 am to 5 pm	5	£120
Sat 22 Feb 2025	Pantograph engraving including cutter making	10 am to 5 pm	6	£130
Sat 15 Mar 2025	Lathe screw cutting and fusee making	10 am to 5 pm	5	£120
Sat & Sun 10 & 11 May 2025	More advanced use of the watchmakers lathe	10 am to 5 pm	6	£240
3 Sundays 31 May, 7 & 14 June 2025	Introduction to watchmaking and make your own watch	10 am to 5 pm	12	£440
Tue to Fri 5 to 8 Aug 2025	Clock repair summer school	10 am to 5 pm	8	£480

Note 1 : All the above are subject to change if circumstances demand

Note 2 : All bookings and enquiries should be emailed to shortcourses@efhc.org.uk To book please enquire whether there is a vacancy before sending payment. If available a place will be reserved for 24 hours and confirmed on receipt of payment.

Note 3: A discount is available to fully paid up EFHC members, see the members area of our website <https://www.efhc.org.uk> for details.

Course Summaries

(1) Introduction to the centre lathe

Aimed at beginners, this course is designed to give students the competence and confidence to use lathes safely for basic operations and includes parallel turning and facing, chamfering, knurling, drilling, tapping and threading using a die on both steel and brass.

(2) Basic metalwork

With such people as those who didn't have the benefit of being taught metalwork at school in mind this course introduces marking out, sawing, filing, drilling and tapping. By the end of the course students will have a very useful clamp to take away.

(3) Introduction to the watchmaker's lathe

Watchmakers' lathes will be described along with checks and adjustments as necessary. Sharpening of gravers will be taught then turning steel parallel, turning a shoulder screw including

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threading and filing square using a filing rest. It is suggested that students bring their own lathes, gravers and sharpening equipment if they have them although these are available if they haven't.

(4) Lathe tool and drill bit sharpening

Students will be provided with the following to take home afterwards. A high speed steel (HSS) lathe tool, 3 HSS drills of varying sizes, a drill sharpening jig/gauge, a medium grade diamond slip stone and a printed version of the course notes. They will be taught to sharpen both the lathe tool and the drills for use on both steel and brass. Sharpening of gravers, screwdrivers, reamers, broaches, taps and dies along with flat bottomed drills will also be demonstrated.

(5) Introduction to clockmaking.

Indian produced copies of a classic American single train clock design are used on this course. After a general description of the workings of a clock and a demonstration of safely dismantling and re-assembling it participants will each be given one in working order to practice on. They can then dismantle, clean, re-assemble and lubricate it, making any necessary minor adjustments to set it going again.

(6) Making cutters for a pantograph engraver and using them.

The club has an Alexander pantograph engraving machine along with a Chinese copy of a Deckel tool and cutter grinder which is designed to make single point cutters for engravers. This course teaches students how to make a double ended cutter which they get to keep and how to use it to engrave text, dials and the like with one end and for light milling including crossing out wheels, profiling levers etc. with the other. Some turning is involved so experience with a lathe is an advantage but not essential.

(7) Producing screw threads.

The cutting of a variety threads, both internal and external will be covered using taps and dies and a screw cutting lathe. Left and right hand threads and single and two start threads will be included. Another topic which may be discussed, depending on available time and participants' interests, is the threading of fusees.

(8) More advanced use of the watchmakers lathe.

This course follows on from the introduction to the watchmakers' lathe course or is for students with some experience. They will be provided with a drawing and are expected to work to size including turning a shoulder, turning a groove, filing square, threading, softening, and hardening and bluing pivot steel as appropriate. Alternatively they can work in a similar fashion on a balance staff. Bring your own lathe, accessories and measuring kit if you have them.

(9) Introduction to watchmaking and 'Make your own watch'

Students will be provided with a Chinese version of a Unitas 6497 movement, a dial, hands, case and strap which they get to take home afterwards. They are taught to dismantle, clean, reassemble, adjust and lubricate the movement which introduces them to basic watchmaking and the Swiss lever escapement. Then they complete the assembly of the watch and time it. Designed as a pocket watch movement, it has 17 jewels and makes a large wristwatch with a subsidiary second hand in the modern fashion. Any tools needed are available on loan if needed.

(10) Clock repair Summer School

This is an opportunity to bring along a pendulum clock and use the Centre's equipment to repair it with expert help available. Please discuss with us beforehand the suitability of your clock and perhaps bring two in case the first is very quick or too complicated to attempt. A pendulum clock is specified because there will not be enough time to teach work on platforms not in good condition.