

Microscope maintenance

Email: courses@cleapss.org.uk

Tel: 01895 251496

This one-day practical course is designed for science technicians with little knowledge or experience of using and servicing school microscopes.

The objective of the course is to provide technicians with the skills and knowledge so they can confidently carry out routine maintenance tasks and tackle straightforward repairs. This will include the majority of faults normally found in microscopes, potentially saving money spent on buying in the services of a professional microscope technician. Less common, more complex jobs e.g. repair of fine focus mechanism, will still require their services.

During the day the following will be covered:

- Parts of a microscope and their function.
- Setting up microscopes and fault finding.
- Dismantling microscopes for servicing.
- Cleaning & lubricating coarse focus mechanism.
- Re-assembly and adjustment of mechanical parts.
- Cleaning the optical components.
- Inserting and calibrating an eye piece graticule.
- Testing the serviced microscope.

To get the most from the day, each technician needs to bring the following:

- **Two** microscopes (if possible 1 junior type and 1 A-level type).

Microscopes with a single coarse focus or a separate fine and course focus rack and pinion mechanism are most appropriate for the course as they can usually be serviced fully.



These older style microscopes can also normally be serviced fully.

With newer style microscopes, servicing is normally limited to cleaning optics & making minor adjustments.



And as many of the following as possible - soft lint free cloth, set of screwdrivers from small instrument sizes to larger ones needed for the microscopes, set of Allen keys, an overall (some microscope parts can be dirty/greasy).

Duration: 1 Day

Times: Start 9.00am; Finish 4.00pm (approx.)

For details of the next scheduled course please see our website.

