

Optima Series**L020-0782****2 Days****Tuition £730**

Attendees will be able to develop an optimized multi-element program after identifying and overcoming common spectral and physical interferences.

Prerequisites

The attendee should have a basic, practical laboratory understanding of ICP and at least one month's hands-on experience operating the Optima Series ICP spectrometer. Attendees should also have read the Concepts of ICP book.

Lectures and Labs

- Theory of ICP
- Routine checks and basic maintenance
- Method development
- Spectral mode
- Reprocessing

The course duration is two days, starting at 09:30 and ending at 16:30.

DATES

SEER GREEN SEP. 14, NOV. 16

INDUCTIVELY COUPLED PLASMA - MASS SPECTROMETRY ICP-MS

UK

ELAN ICP-MS Familiarization

L020-0780	2 Days (1st 2 days)	Tuition	£730
L020-0785	2 Days (2nd 2 days)	Tuition	£730
Take both courses for...		Tuition	£1,150

This introduction to the ICP-MS analytical technique includes a brief review of theoretical aspects of ICP-mass spectrometry. The course consists of a series of lectures and practical laboratory sessions to emphasise the lessons in the lectures. Starting with an overview of ICP-MS, the attendee is introduced to operational parameters, optimization and mass calibration. This is followed by TotalQuant™ III and then quantitative analysis and method development. The second two-day period (L020-0785) deals with theory and optimization, plus method development with the Dynamic Reaction Cell (DRC). The major emphasis is on practical work and achieving competence in the use of the instrument, with the first half of the course dealing with standard ICP-MS and the latter part with DRC theory and operation.

Prerequisites

Attendees should have at least two weeks of experience with the Elan ICP-MS system, or have a working knowledge of ICP-MS. Those attending Part 2 – DRC only – should have received basic training on a standard Elan system.

Lectures and Labs

- Introduction to ICP-MS and ELAN system
- DRC theory and basics
- Influence of instrument parameters on ICP-MS analysis
- Optimization of the DRC
- Instrument optimization and software
- Building a DRC method
- Mass calibration and resolution
- Multiple gases and choice of gases
- Routine tests of instrument performance
- Applications
- TotalQuant
- Quantitative analysis

*Courses start at 9:30 and ends at 16:30.

DATES

(L020-0780)

SEER GREEN FEB. 23, MAY 10, JUL. 5,
OCT. 4, DEC. 13

(L020-0785)

SEER GREEN FEB. 25, MAY 12, JUL. 7,
OCT. 6, DEC. 15