Course Outline

INCAWave 2 day course

This course is run for a maximum of 6 delegates to allow sufficient 'hands-on' practice live on the SEM.

Objectives

On this course you will learn how to:

- Set up the SEM for WD analysis
- Appreciate the requirements and settings for WD analysis
- Acquire segmented WD spectra
- Set up standards
- Do quantitative analysis using WD only
- Set up combined ED and WD analyses
- Use WD mapping
- Monitor performance and calibrate the system

Pre-requisites

Delegates should have had some basic experience of using the INCA software. This would be gained from the initial training when the system was installed.

Course Outline

Introduction to the system:

- How the spectrometer works
- Gate valve operation
- Choosing SEM operating conditions

Data acquisition:

- Qualitative analysis
- Spectral scan
- The Line Table Editor
- Practical session

Quantitative analysis:

- Basic theory
- Monitoring beam current
- Acquiring and storing standards
- Analysing a sample using Wave data only
- Practical session

Combined ED and WD analysis using Energy+:

- Beam conditions for combined ED and WD
- Overlaying a WD spectrum on the ED spectrum
- Setting up combined ED and WD
- Quantitative analysis
- Mapping using WD
- Practical session

Basic system monitoring:

- Spectrometer Direct Control
- Calibrating the counters

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