Course Outline

INCA Energy 2 or 3 day course (depending on optional topics & location)

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 appropriate analysis SEM and ED operating conditions
- Use the tools in INCA to correctly identify peaks in the spectrum
- Process spectra into quantitative analysis using default standards
- Set up your own standards for quantitative analysis
- Acquire and process electron images and maps
- Store, recall, export and report data
- Monitor and maintain system performance

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:
- Hardware and detector
- Calibration and operation of X-ray detectors

Spectrum acquisition:
- Acquisition pre-sets and process time
- Peak identification and diagnostic tools
- Beam automation
- Comparing spectra
- General housekeeping of data
- Practical session

Quantitative analysis:
- Basic theory
- How the spectrum is processed
- Pre-quantitative analysis checks
- Quant calibration
- Standardless analysis using default standards
- Analysis using standards
- Practical session

Imaging, smartmaps and linescans:
- Optimising image and smartmap setups
- Cameo+ and phasemap
- Saving, exporting and printing of images and spectra
- Practical session

The following optional topics may also be covered:
- Automated data acquisition using Automate
- Montage for images and maps
- QuantMap

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