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
- Acquire spectra and correctly identify the elements
- Process spectra into quantitative analysis
- Acquire and process electron image, maps and linescans
- Store, recall, export and report data
- Write standard operating procedures
- Create tailored profiles for specific tasks
- Monitor and maintain system performance

Pre-requisites
Delegates should have had some basic experience of using the AZtec 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

The AZtec user interface:
- Using Help
- Data View, Mini View and Step Notes

Image and Spectrum acquisition:
- Microscope Control
- Acquisition pre-sets and process time
- Peak identification and diagnostic tools
- Comparing spectra and mini-quant
- Simultaneous acquisition and processing
- Practical session

Quantitative analysis:
- Requirements for accurate quant
- Pre-quantitative analysis checks
- Diagnostic tools
- Standardless analysis using default standards
- TruQ
- Practical session

Images, maps and linescans:
- Optimising image and map acquisitions
- Creating a layer image
- Autolayer
- TruMap
- Saving, exporting and printing of images and spectra
- Practical session

Additional topics:
- Report templates and batch reporting
- Preferences, profiles and step notes
- Guided and Custom views
- Using two monitors