Europe APEX™ Training Agenda

1.5 Day APEX™ Training Agenda
10:00 AM to 5:00 PM Wednesday
9:00 AM to 4:00 PM Thursday

Day 1
10:00 Welcome
- Presentation and introduction of EDAX business unit and participants
- Organizational matters, wishes, samples, and expectations
10:15 Introduction to the analytical system
- APEX™ system requirements
- Introduction: electron microscope
  o Aufbau, secondary electron detector, electron backscatter detector
- Introduction: X-ray Analysis
- Introduction: X-ray/Material
- Exercise: interaction volume, affect on analysis
11:15 Coffee break
11:30 X-ray analysis on SEM
- Interaction X-ray/atom
- Influences on the sample
- Structure of a silicon drift detector (SDD)
- Signal processing of electronics, artefacts: sum peak, escape peak
12:30 Lunch break
13:30 Introduction to APEX™ Software (qualitative)
- APEX™ software overview, workflow
- Exercise: Element ID on different samples
15:00 Coffee break
15:30 Quantitative Analysis
- Performance and benefits of SDDs, calibration
- Important parameter influences regarding quantification measurements

Day 2
9:00 APEX™ Software Mapping
- Introduction to mapping and drift correction
- Setup, types of maps, measurements
10:30 Coffee break
11:00 APEX™ Software Linescan
- Introduction to Linescan
- Setup and measurement
12:00 Lunch break
13:00 APEX™ Review
- Postprocessing EDS Point Analysis, reporting
- Postprocessing mapping, reporting
- Postprocessing EDS Linescan, reporting
14:15 15-minute coffee break
14:30 Continuation of APEX™ review
15:30 Questions and Answers