



## APEX™ EDS Training Course Agenda

### Monday – Introduction and EDS theory

- 12:00**      **Welcome and lunch**
- 13:00**      **EDAX and AMETEK**  
Introduction of EDAX and participants - organizational matters
- 13:15**      **Introduction to the analytical system**  
SEM – electron and X-ray signals  
EDS – detector and pulse processing hardware
- 14:00**      **EDS analysis**  
System requirements - element identification – sample effects - quantification  
parameters - correction factors
- 15:00**      **Coffee break**
- 15:30**      **APEX software introduction**  
Live on SEM  
Analyzing participant samples
- 17:00**      **End of day 1**



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### Tuesday – EDS data acquisition: point analysis and line scans

- 9:00**            **APEX software setup**  
Image and spectrum calibration - correction factors for quantification – results output
- 9:45**            **APEX quantification methods**  
eZAF, PeBaZAF, coating correction
- 10:30**           **Coffee break**
- 10:45**           **APEX quantification results**  
Elements - oxides – standards
- 12:00**           **Lunch break**
- 13:00**           **APEX point analysis**  
Analysis location selection - SEM beam parameters - composition effects - quantification - analyzing participant samples
- 15:00**           **Coffee break**
- 15:30**           **APEX line scan collection and processing**  
Analysis location selection - line scan parameters - dwell time considerations - analyzing participant samples
- 17:00**           **End of day 2**



## **APEX™ EDS Training Course Agenda**

### **Wednesday – EDS data acquisition: mapping and reporting**

- 9:00**            **Review of day 2**
- 9:30**            **APEX spectral mapping**  
Parameter selection - measurement duration - post processing
- 10:45**          **Coffee break**
- 11:00**          **APEX reporting**  
Quick report - live reporting - customization
- 11:30**          **Practice on live SEM and Q&A session**
- 12:00**          **End of EDAX EDS course**