

S2 RANGER™ Slag Analyzer Applications Training



Course Description:

This course applies to users of the S2 RANGER Slag Analyzer and SPECTRA EDX Version 2.0 or 2.1 software.

Participants will receive three days of intensive training on the fundamentals of Energy Dispersive X-ray Spectrometry, using S2 RANGER hardware and SpectraEDX software.

This course is designed for steel industry users. It is a hands-on training and is intended to provide practical experience in handling the X-ray spectrometer. The hardware training will be performed primarily on an S2 RANGER with a recent version of SPECTRA EDX software.

Participants are encouraged to contact the course instructor in advance for more information and to bring samples or example data with them to the class. No other materials are required.



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Course Outline & Agenda:

Tuesday

8:30 am – 4:30 pm

Introduction to X-ray spectroscopy

- Basic X-ray theory
- Identifying EAF & LMF slag peaks & artefact peaks

S2 RANGER

- Touchscreen programs
- Daily routine

Wednesday

8:30 am – 4:30 pm

SPECTRA EDX software

- Installing software
- File structure
- Data backup

S2 Calibration Wizard

- Example EAF slag calibration
- Creating an EAF drift correction sample
- Creating an EAF quality check sample

Thursday

8:30 am – 4:30 pm

EQUA ALL program

- Explanation of EQUA ALL
- Modifying an existing standardless program
- Creating a new standardless program (eg: for bag house dust)

Maintenance

- Preventive maintenance in a dusty environment
- Diagnostics program software
- Remote diagnostics via modem or WebEx