SPECTRO Analytical Instruments GmbH
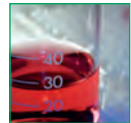
Training 2019

SPECTRO | AMETEK
MATERIALS ANALYSIS DIVISION

AMECARE
PERFORMANCE SERVICES

General Information

Contact / **Registration**	Tel.: +49.2821.892.3106 Fax: +49.2821.892.3206 Email: spectro.training@ametek.com Please register yourself in written form (e-mail or via internet at www.spectro.com/training). Registration deadline is two weeks before the course starts.
Location:	SPECTRO Analytical Instruments GmbH Boschstrasse 10, 47533 Kleve, Germany
Time:	The courses start at 9.00 a.m. and end at 5:00 p.m.
Number of **Participants:**	Minimum four, depending on the training room maximum eight or ten.
Training Material:	Made available for during the course.
Training Fee / **Hotel:**	The prices mentioned are to be understood as per person. Lunch, coffee and softdrinks during the day, as well as hotel accommodation (three-star hotel, upgrade to a four-star hotel is possible for an additional fee of 35 Euro per night – subject to availability), are included in the training fee. Please find the max. number of nights in the single training course description. Travel expenses are not included in the training fee.

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Discount: If you register two or more participants from one company, the second, and each additional participant will receive a 15 % discount on the training fee.

Certificate: Each participant receives a certificate at the end of the training.

Multimedia: The operator courses take place at our facilities in Kleve, Germany. The training rooms are equipped with networked PC stations for a maximum of 8 or 10 participants. Our multimedia concept allows the training content to be displayed on all of the computer work stations. Participants are coached individually.

Language: All courses are held in English.

SPECTRO xSORT

XRF Analyzer Software

Target Group:

Customers with basic knowledge of routine operation, or those who want to learn it systematically. Based on practical examples, daily tasks and routine operation are explained and put into practice.

Content:

· Routine operation: Analysis and grade ID
· Creation and modification of the grade library
· Creation and working with application profiles
· Data storage and export of analyses
· Safety regulations for handling
  XRF-handheld spectrometers
· Data backup
· Maintenance

Date:

2 – 3 May 2019

Training Fee:

1,551 Euro
incl. max. 3 nights
hotel accommodation

SPECTROTEST (TXC03/TXC35)

Spark Analyzer Pro Mobile Software

Target Group:

Customers with basic knowledge of routine operation, or those who want to learn it systematically. Based on practical examples, daily tasks and routine operation are explained and put into practice.

Content:

· Routine operation: Analysis mode, sorting mode, grade ID, iCAL, APF
· Creation and working with application profiles
· Creation of sorting tasks
· Creation and modification of the grade library
· Type standardization
· Handling of the probe(s) (UV)
· Data storage and export of analyses
· Data backup
· Maintenance

Date:

1 – 2 October 2019

Training Fee:

1,551 Euro
incl. max. 3 nights
hotel accommodation

SPECTROPORT (PXC01)

Spark Analyzer Pro PORT Software

Target Group:

Customers with basic knowledge of routine operation, or those who want to learn it systematically. Based on practical examples, daily tasks and routine operation are explained and put into practice.

Content:

· Routine operation: Grade ID (search and verification/control), analysis mode, iCAL
· Individual software settings and changes directly in measurement window
· Creation and modification of grades and grade libraries
· Additional modes and setup: sorting, APF, type standardization
· Handling of probes (especially UV type)
· Data storage, printing and export of results
· Data backup
· Maintenance

Date:

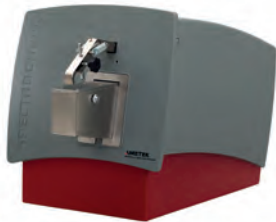24 – 25 July 2019

Training Fee:

1,551 Euro
incl. max. 3 nights
hotel accommodation

SPECTROCHECK (LMM01)

Spark Analyzer Pro CHECK Software

Target Group:

Beginners as well as users with basic knowledge who want to learn the routine operation systematically. The daily routine work is taught theoretically and practically during the training.
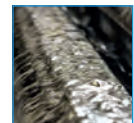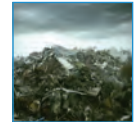
Content:

· Basics of spectrometry
· Instrument components
· Analysis view and function keys
· Routine analysis and handling
· iCAL procedure
· Usage of type standardization
· Control sample test
· Valuation of results
· Grade libary and handling
· Customer specific settings
· Maintanance/Troubleshooting/Backup procedure
· Handling of sample adapters
· Sample preperation

Date:

29 – 30 April 2019

Training Fee:

1,606 Euro
incl. max. 3 nights
hotel accommodation

Mobile / Portable Metal Analyzers/ Stationary Metal Analyzers

SPECTROMAXx (LMX06/07)

Spark Analyzer Pro MAXx Software

Target Group:

Beginners as well as users with basic knowledge who want to learn the routine operation systematically. The daily routine work is taught theoretically and practically during the training.

Content:

· Routine operation
· Routine functions of the software
· Maintenance
· iCAL
· Regression program
· Extension of calibration ranges
· Exchange of the iCAL sample
· Application questions
· Sample Result Manager basics

Date:

23 – 25 July 2019

Training Fee:

2,398 Euro
incl. max. 4 nights
hotel accommodation

SPECTROLAB (M10/M11)

Spark Analyzer Vision Software

Target Group:

Beginners as well as users with basic knowledge who want to learn the routine operation systematically. The daily routine work is taught theoretically and practically during the training.

Content:

· Routine operation
· Routine functions of the software
· Maintenance
· Regression program
· Extension of calibration ranges
· Exchange of standardization samples
· Application questions
· Sample Result Manager basics

Date:

17 – 19 June 2019

Training Fee:

2,398 Euro
incl. max. 4 nights
hotel accommodation

SPECTROLAB (M12)

Spark Analyzer Pro LAB Software

Target Group:

Beginners as well as users with basic knowledge who want to learn the routine operation systematically. The daily routine work is taught theoretically and practically during the training.

Content:

· Routine operation
· Routine functions of the software
· Maintenance
· Regression program
· Extension of calibration ranges
· Exchange of standardization samples
· Application questions
· Sample Result Manager basics

Date:

16 – 18 July 2019

Training Fee:

2,398 Euro
incl. max. 4 nights
hotel accommodation
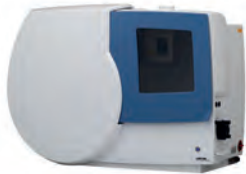
SPECTRO ARCOS, BLUE and GENESIS

Smart Analyzer Vision Software / Analyzer Pro Software

Target Group:

This training is for users who already have experience with the instrument and the software and would like to deepen their knowledge.

Content:

· Basics
· Method development
· Calibration and analysis
· Special functions and features of the software
· Use of accessories
· Special applications
· Maintenance
· Troubleshooting

Dates:

30 July – 2 August 2019
9 – 12 December 2019

Training Fee:

2,850 Euro
incl. max. 5 nights
hotel accommodation

SPECTRO MS

Mass Analyzer Vision Software

Target Group:

This training is for users who already have experience with the instrument and the software and would like to deepen their knowledge in order to carry out the method development more reliably and efficiently.

Content:

· Basics of ICP MS
· System optimization
· Spectra interpretation
· Method development with calibration strategies and utilization of internal standards
· Correction models for spectral interferences
· Automation of analysis with autosampler
· Introduction to isotope ratio and isotope dilution analysis

Date:

12 – 16 August 2019

Training Fee:

3,476 Euro
incl. max. 6 nights
hotel accommodation

SPECTRO xSORT

XRF Analyzer Software

Target Group:

Customers with basic knowledge of routine operation, or those who want to learn it systematically. Based on practical examples, daily tasks and routine operation are explained and put into practice.

Content:

· Routine operation: Analysis and grade ID
· Creation and modification of the grade library
· Creation and working with application profiles
· Data storage and export of analyses
· Safety regulations for handling
  XRF-handheld spectrometers
· Data backup
· Maintenance

Date:

2 – 3 May 2019

Training Fee:

1,551 Euro
incl. max. 3 nights
hotel accommodation

SPECTROSCOUT

XRF Analyzer Software

Target Group:

Customers with basic knowledge of routine operation, or those who want to learn it systematically. Based on practical examples, daily tasks and routine operation are explained and put into practice.

Content:

· Routine operation
· Introduction in XRF theory
· Method development
· Sample preparation
· Discussion of sample results
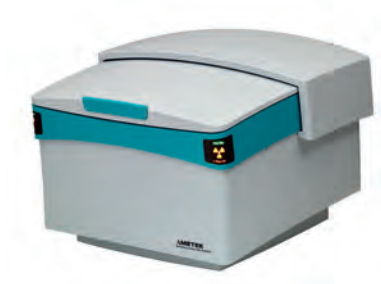· Maintenance

Date:

12 – 13 June 2019

Training Fee:

1,551 Euro
incl. max. 3 nights
hotel accommodation

SPECTRO XEPOS

XRF Analyzer Pro Software

Target Group:

This course is for customers who are already familiar with the instrument and the software. Questions resulting from this experience will be discussed during the training.
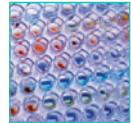
Content:

· Fundamental theories, sample preparation
· Structure of the XRF Analyzer Pro software
· Generation of sample reports
· Method development, calibration
· Validation of the instrument
· Maintenance

Date:

17 – 19 June 2019

Training Fee:

2,398 Euro
incl. max. 4 nights
hotel accommodation

SPECTRO MIDEX (MID05)

XRF Analyzer Pro Software

Target Group:

This course is for customers who are already familiar with the instrument and the software. Questions resulting from this experience will be discussed during the training. The main focus of the training is the method development and calibration of the instrument.

Content:

· Software introduction
· Fundamental theories, sample preparation
· Generation of sample reports
· Maintenance
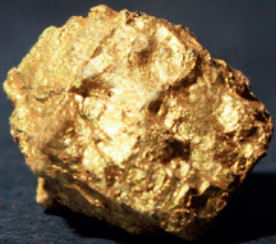· Method development, calibration

Date:
1 – 2 October 2019

Training Fee:
1,551 Euro
incl. max. 3 nights
hotel accommodation

AMECARE

The program fields more than 200 service engineers in more than 50 countries. The high-value, customized services they deliver help ensure optimum performance and the longest possible equipment life. Available AMECARE support includes protective maintenance programs, applications solutions, expert consultation, and targeted training.

Ensuring peak performance and maximum return on investment over the life of your equipment. We will deliver this by:

- Proactively maintaining your equipment to maximize availability

- Optimizing solutions to meet your unique applications

- Enhancing user skills by providing access to product and application experts

AMECARE
PERFORMANCE SERVICES

www.spectro.com

SPECTRO WorldWide

Legend:
- ☐ Headquarters & Production Facility
- ○ Additional Production Facility
- ● Regional Center
- ◎ Demo Facility
- ■ Subsidiaries
- ▲ Representatives

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