

SPECTRO Analytical Instruments GmbH

Training 2020



AMETEK
MATERIALS ANALYSIS DIVISION

AMECARE
PERFORMANCE SERVICES

General Information

**Contact /
Registration**

Tel.: +49.2821.892.3106
Fax: +49.2821.892.3206
Email: spectro.training@ametec.com
Please register yourself in written form
(e-mail or via internet at www.spectro.com/training).
Registration deadline is six 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.

- Cancellation:** Cancellations up to three weeks before the training starts will be charged with 20% of the training fee. Later cancellations will be invoiced with 75% of the training fee. A substitution of the registered person is possible without any charges.
- 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 CE 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:

21 – 22 January 2020

Training Fee:

1,690 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 July 2020

Training Fee:

1,690 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:

19 – 20 August 2020

Training Fee:

1,690 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:

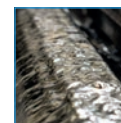
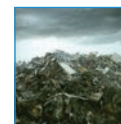
- Basics of spectrometry
- Instrument components
- Analysis view and function keys
- Routine analysis and handling
- iCAL procedure
- Usage of type standardization
- Control sample test
- Valuation of results
- Grade library and handling
- Customer specific settings
- Maintenance/Troubleshooting/Backup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

Date:

1 – 2 April 2020

Training Fee:

1,750 Euro
incl. max. 3 nights
hotel accommodation



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:

18 – 20 May 2020

Training Fee:

2,650 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:

24 – 26 March 2020

Training Fee:

2,650 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:

7 – 9 July 2020

Training Fee:

2,650 Euro
incl. max. 4 nights
hotel accommodation

SPECTROLAB S (S01)

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 iCAL / standardization samples
- Application questions
- Sample Result Manager basics



Date:

1 – 3 December 2020

Training Fee:

2,650 Euro
incl. max. 4 nights
hotel accommodation



SPECTRO ARCOS, GREEN, 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:

7 – 10 July 2020

3 – 6 November 2020

Training Fee:

3,100 Euro

incl. max. 5 nights
hotel accommodation

SPECTRO xSORT

XRF Analyzer CE 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:

21 – 22 January 2020

Training Fee:

1,690 Euro
incl. max. 3 nights
hotel accommodation



SPECTROSCOUT

XRF Analyzer Pro 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:

28 – 29 January 2020

Training Fee:

1,690 Euro
incl. max. 3 nights
hotel accommodation

SPECTRO XEPOS and SPECTROCUBE C

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

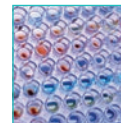


Date:

28 – 30 April 2020

Training Fee:

2,650 Euro
incl. max. 4 nights
hotel accommodation



SPECTRO MIDEX (MID05) and SPECTROCUBE D

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:

15 – 16 July 2020

Training Fee:

1,690 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:

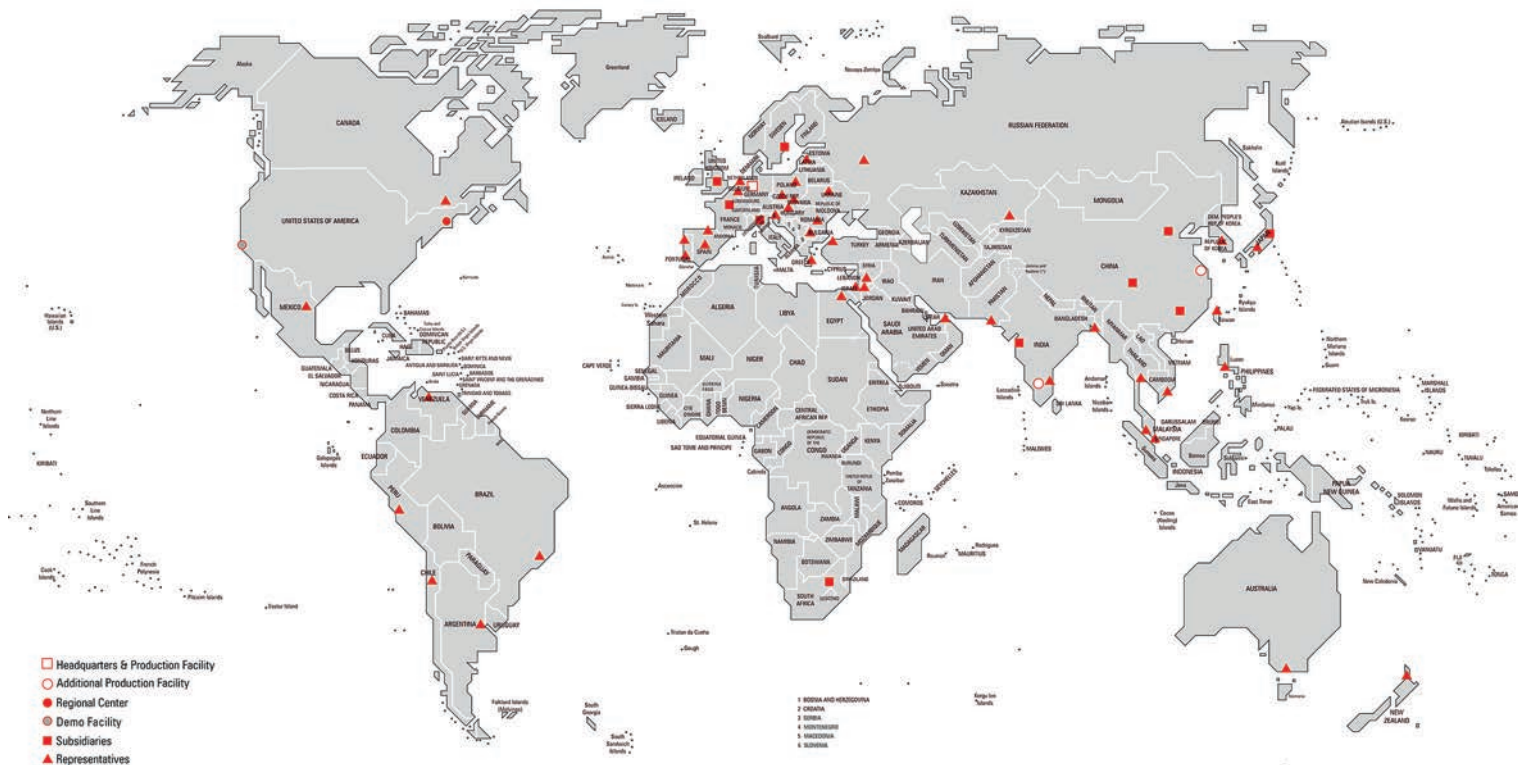
- Proactively maintaining your equipment to maximize availability
- Optimizing solutions to meet your unique applications
- Enhancing user skills by providing access to product and application experts



www.spectro.com



SPECTRO WorldWide



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 **SPECTRO**: USA (3,645,267); EU (005673694); „SPECTRO”: EU (009693763); „iCAL”: USA (3,189,726), EU (003131919); „SPECTROTEST”: EU (004206173), USA (4,103,718); xSORT: EU (7058456), USA (3,767,555); „SPECTROLAB”: EU (1069339), USA (4,103,747); „SPECTROBLUE”: USA (4,200,588), EU: (1099910); „ARCOS”: EU (005326566), USA (3,451,924); „SPECTRO GENESIS”: EU (004206165), USA (3,170,644); „XEPOS”: EU (39851192), USA (2,415,185); „MIDEX”: EU (003131984), USA (2,864,548); „SPECTRO iQ”: EU (004206181), USA (3,906,817); „SPECTROSCOUT”: EU (10705424); SPECTROCUBE: EU (017937930)
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