

SPECTRO Analytical Instruments GmbH

# Training 2021



## General Information

---

<b>Contact / Registration</b>	Tel.: +49.2821.892.3106 Fax: +49.2821.892.3206 Email: <a href="mailto:spectro.training@ametek.com">spectro.training@ametek.com</a> Please register yourself in written form (e-mail or via internet at <a href="http://www.spectro.com/training">www.spectro.com/training</a> ). Registration deadline is four weeks before the course starts.
<b>Training Type and Times:</b>	All courses take place online. The timetable will be announced in time. Certain courses may be offered either on a daily basis or in blocks of two or four hours.
<b>Number of Participants:</b>	Minimum four, maximum ten.
<b>Training Material:</b>	Made available for you at the beginning of the course.
<b>Training Fee:</b>	The prices mentioned are to be understood as per person.
<b>Discount:</b>	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.
<b>Cancellation:</b>	Cancellations up to two weeks before the training starts will be charged with 20% of the training fee. A substitution of the registered person is possible without any charges.

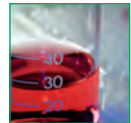
**Multimedia:** With the online training courses we offer, you have the opportunity to be there live, without time and cost-intensive travel. All you need to participate is an Internet-capable end device, such as laptop (with speakers and microphone or headset; a webcam would be useful), tablet or smartphone. Most courses are interactive, so it makes sense that each participant dials in with his (own) terminal.

Our trainers are equipped with the latest technology to provide you with high quality learning content. We use various tools such as camera, teamviewer, merged reality and digital whiteboards. You will receive an e-mail invitation with a link to the online course. With one mouse-click you will join the course.

**Individual training:** In addition to the standard courses, we also offer individual courses that are tailored to your needs. This requires prior consultation in order to prepare the contents accordingly. We would be pleased to make you an offer.

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

**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:

20 – 21 January 2021  
30 September – 1 October 2021

#### Training Fee:

1,859 Euro

[→ REGISTER ONLINE](#)

## 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:

25 – 26 January 2021  
4 – 5 October 2021

#### Training Fee:

1,859 Euro

[REGISTER ONLINE](#)



## 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:

18 – 19 January 2021  
28 – 29 September 2021

#### Training Fee:

1,859 Euro

[→ REGISTER ONLINE](#)

## 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 adapter
- Sample preparation

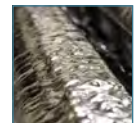
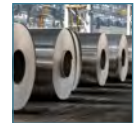
#### Date:

22 – 23 February 2021  
28 – 29 June 2021

#### Training Fee:

1,925 Euro

 REGISTER ONLINE



## SPECTROMAXx (LMX06/07/08)

### 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 / iCAL 2.0
- Regression program
- Extension of calibration ranges
- Exchange of the iCAL sample
- Application questions
- Sample Result Manager basics



#### Date:

18 – 20 May 2021  
12 – 14 October 2021

#### Training Fee:

2,915 Euro

[→ REGISTER ONLINE](#)



## 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



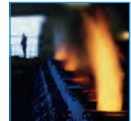
#### Date:

28 – 30 April 2021  
3 – 5 November 2021

#### Training Fee:

2,915 Euro

 REGISTER ONLINE



## 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:

27 – 29 January 2021  
30 June – 2 July 2021

#### Training Fee:

2,915 Euro

[→ REGISTER ONLINE](#)

## 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:

24 – 26 February 2021  
1 – 3 December 2021

#### Training Fee:

2,915 Euro

[→ REGISTER ONLINE](#)



## SPECTRO ARCOS, GREEN, BLUE and GENESIS

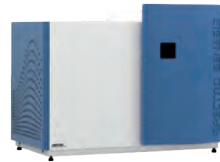
### Smart Analyzer Vision Software / Analyzer Pro Software

#### 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:

13 – 16 April 2021  
2 – 5 November 2021

#### Training Fee:

3,410 Euro

[→ REGISTER ONLINE](#)

## 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

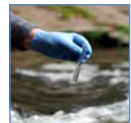
#### Date:

20 – 21 January 2021  
30 September – 1 October 2021

#### Training Fee:

1,859 Euro

[→ REGISTER ONLINE](#)



## 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:

26 – 27 January 2021

#### Training Fee:

1,859 Euro

[→ REGISTER ONLINE](#)

## SPECTRO XEPOS and SPECTROCUBE C

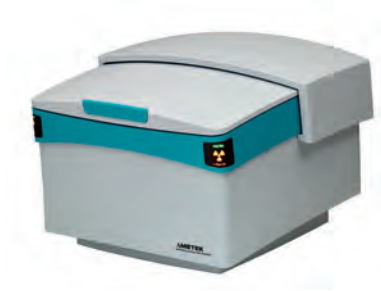
### XRF Analyzer Pro Software

#### 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



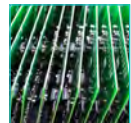
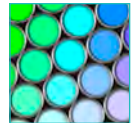
#### Date:

28 – 30 April 2021

#### Training Fee:

2,915 Euro

[→ REGISTER ONLINE](#)



## 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:

29 – 30 June 2021

#### Training Fee:

1,859 Euro

[→ REGISTER ONLINE](#)



## 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](http://www.spectro.com)



## SPECTRO WorldWide



## GERMANY

SPECTRO Analytical Instruments GmbH  
Boschstrasse 10  
D-47533 Kleve  
Tel: +49.2821.892.0  
Fax: +49.2821.892.2210  
spectro.sales@ametek.com


## U.S.A.

SPECTRO Analytical Instruments Inc.  
91 McKee Drive  
Mahwah, NJ 07430  
Tel: +1.800.548.5809  
+1.201.642.3000  
Fax: +1.201.642.3091  
spectro-usa.sales@ametek.com

## CHINA

AMETEK Commercial  
Enterprise (Shanghai) CO., LTD.  
Part A1, A4 2nd Floor Building No.1,  
No.526 Fute 3rd Road East, Pilot Free Trade Zone  
200131 Shanghai  
Tel.: +86.400.100.3885, +86.400.189.7733  
Fax: +86.21.586.609.69  
spectro-china.sales@ametek.com



Registered Trademarks of SPECTRO Analytical Instruments GmbH:  
 **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), USA (1,448,336) © 2020 AMETEK Inc., all rights reserved. Subject to modifications. H-20, Rev. 0. Part no.: 80925107