

2015 Training Courses

GDS, ICP-OES, Particle Size Analysis,
C/S & O/N/H, S & Cl in Petroleum,
X-Ray Fluorescence

Exceeding Customer Expectations



Training courses calendar 2015

HORIBA Scientific offers many types of training courses tailored to your particular requirements:

- Training course at our approved HORIBA Scientific training center: learn and share your experience with other users and acquire the basics of the technique. You will be able to directly use this knowledge for your applications in your own laboratory.
- Training on-site, performed by one of our HORIBA Scientific application experts:

Training on-site will permit you to learn about the basics of the technique for your instrument: theory, use of the software and analytical methodology for your sample analysis requirements on the instrument.

The analytical assistance will help you to optimize the development of your method for your specific applications: optimize operating conditions, study of possible analytical problems and how to correct them.

Certificates are given to every attendee for every course



Our trainers are Experts in each Elemental Analysis and Particle Size Technique

They will provide you with advice and guidance to make the most of your HORIBA Scientific instrument.

You will gain confidence and experience in the analysis of your samples.



Training courses calendar 2015

	Ref.	Duration	Jan.	Feb	March	April	May	June	July	Sept.	Oct.	Nov.	Dec.
GDS													
User training courses	GD eng	4.5 days				13-17					12-16		
ICP-OES													
User training courses	ICP eng	5 days				20-24			6-10	14-18			
Particle Size Analysis													
User training courses on laser diffraction technique	PSA1 eng	1 day			24					30			
User training courses on dynamic light scattering technique	PSA3 eng	1 day			26						2		
EMIA/EMGA/SLFA/MESA/XGT WR													
EMIA	HOR1 eng	1 day								22			
EMGA	HOR2 eng	1 day								23			
SLFA/MESA	HOR3 eng	1 day								24			
XGT/MESA-50	HOR4 eng	1 day								25			
On-line training													
All techniques	Form Ligne	4 h	Contact us										
On-site training													
On site training	Form-site	Contact us											
Analytical Assistance	Assis-ana	Contact us											

GDS Glow Discharge Spectrometry
 ICP-OES Inductively Coupled Plasma Optical Emission Spectrometry
 EMIA C/S analyser
 EMGA O/N/H analyser
 SLFA/MESA S & Cl analyser in petroleum
 XGT/MESA Fluorescence X elemental analyser





GDS user training courses

GDeng

Reference GDeng
Duration 4.5 days
Dates April 13 to 17, 2015
October 12 to 16, 2015

Who should attend
Users of Horiba Scientific GD spectrometers

Schedule
The training is done in the laboratory

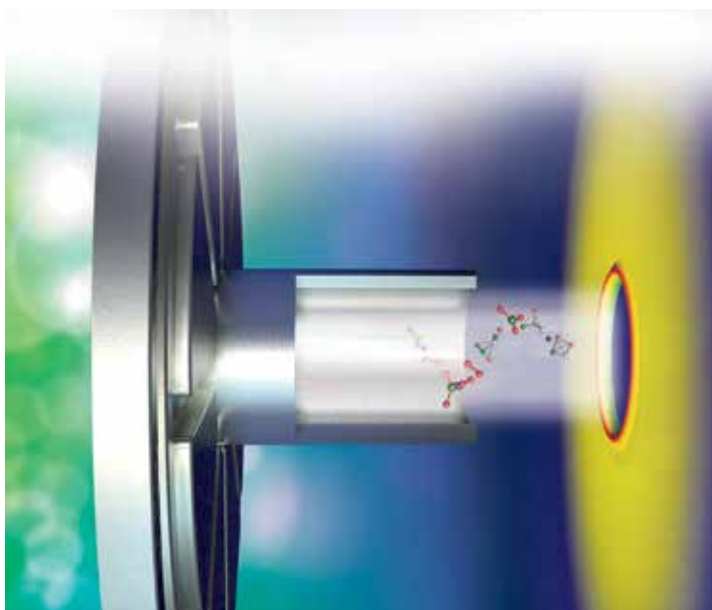
Objectives

- Know how to optimize the instrumental parameters,
- Ability to use the software,
- Perform bulk and surface calibrations,
- Analysis of unknown samples,
- Know and use of the accessories,
- Instrument diagnostics and how to interpret,
- How to identify and rectify problems.

Program

Theory and practical

- Fundamentals of GDS
- How to do an analysis in GDS
- Principle of calibration for bulk and surface
- Example of calibration. Bulk and surface calibration
- Use of monochromator
- Maintenance (cleaning). Lamp/lens
- Tests of different anodes (2 mm, 7 mm),
- Diagnostic test. QC software
- Advanced features in the software



For further information, contact:

Tel: + 33 (0) 1 69 74 18 73 Fax: + 33 (0) 1 69 09 07 21, services.jyfr@horiba.com



ICP-OES user training

ICPeng

Reference ICPeng
Duration 5 days
Dates April 20 - 24, 2015
July 6 - 10, 2015
September 14 - 18, 2015

Who should attend
Users of HORIBA Scientific ICP-OES spectrometers

Schedule
Training room and applications laboratory
Theoretical part: 10 hours; Practical part: 25 hours

Objectives

- Overview of the ICP-OES technique,
- Acquire theoretical and practical knowledge on ICP-OES spectrometers,
- Learn to use the software (latest version used in the laboratory),
- Learn methodology for method development and major analytical parameters,
- Know how to set up an analytical strategy with an unknown sample,
- Interpret results,
- Follow the performances of the ICP-OES spectrometer over the time,
- Identify dysfunctions and their origins and solve these dysfunctions.

Program

Theory

- ICP-OES instrument: principle & instrumentation
- Software and methodology for software development
- Interferences in ICP-OES and performances
- Diagnostics in ICP-OES
- Accessories
- Maintenance.

Practical

- Method development: software and analytical parameters
- Strategy with an unknown sample
- Study of dysfunctions
- ICP Accessories practical use according to trainees' interest



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Particle Size Analyser user training courses on laser diffraction technique

PSA1 eng

Reference PSA1 eng
Duration 1 day
Dates March 24, 2015
September 30, 2015

Who should attend
Users equipped with a laser diffraction analyzer from HORIBA

Schedule
The training is done in the training room and in the laboratory

Objectives

- Acquire theoretical and practical knowledge on the particle size analyzer,
- Learn to optimize operating conditions for any sample.

Program

Theory

- Fundamentals in laser diffraction
- Instruments and accessories description
- Software and specific functions presentation

Practical

- Sample preparation: importance and influence
- Choice of dispersion mode and accessories
- Instrument control check
- Analytical method developments
- First level maintenance



Particle Size Analyser user training courses on light scattering technique

PSA3eng

Reference PSA3 eng
Duration 1 day
Dates March 26, 2015
October 2, 2015

Who should attend
Users equipped with a DLS analyzer from HORIBA

Schedule
The training is done in the training room and in the laboratory

Objectives

- Understand DLS and zeta potential fundamentals,
- Learn to collect good data and interpret results.

Program

Theory

- Fundamentals in dynamic light scattering (DLS) and Zeta potential
- Software and specific functions presentation
- Results interpretation

Practical

- Analytical method developments
- Important parameters in dynamic light scattering: choice and optimization
- Instrument control check
- First level maintenance



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C/S user training course on a HORIBA analyzer

HOR1 eng

Référence HOR1 eng
Duration 1 day
Date September 22, 2015

Who should attend
Users of the EMIA C/S analyzer

Schedule
The training is done in the HORIBA Scientific laboratory.

Objectives

- Acquire the knowledge to be able to choose the analytical conditions
- Learn to optimize the instrumental parameters
- Know how to calibrate the instrument
- Interpret results

Program

Theory

- Principle of C/S analyzers. Specificity of the EMIA
- Software presentation

Practical

- Instrument checking test
- Instrument calibration
- Optimization of the analytical conditions
- Choice of accelerators and flux
- Results traceability
- First level maintenance



O/N/H user training course on a HORIBA Analyzer

HOR2 eng

Reference HOR2 eng
Duration 1 day
Dates September 23, 2015

Who should attend
Users of the EMGA O/N/H analyzer

Schedule
The training is done in the HORIBA Scientific laboratory.

Objectives

- Acquire the knowledge to be able to choose the analytical conditions
- Learn to optimize the instrumental parameters
- Know how to calibrate the instrument
- Interpret results

Programme

Theory

- Fundamentals of O/N/H analyzers. Specificity of the EMGAs
- Determination of Hydrogen by FTIR or TCD
- Software presentation

Practical

- Instrument checking test
- Instrument calibration
- Optimization of the analytical conditions
- Choice of accelerators and flux
- Results interpretation and traceability
- First level maintenance



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Sulfur & Chlorine in Oil user training course on a HORIBA Analyzer

HOR3 eng

Reference HOR3 eng
Duration 1 day
Dates September 24, 2015

Who should attend
Users of SLFA, MESA-6000/7220.

Schedule
The training is done in the HORIBA Scientific laboratory.

Objectives

- Know how to optimize the instrumental parameters,
- Control of the analytical conditions,
- How to interpret the results.

Program

Theory

- Fundamentals of X-Ray fluorescence
- Specificity of Sulfur and Chlorine determination in petroleum samples
- Presentation of the different instruments
- Presentation of the software

Practical

- Sample preparation
- Checking of the instrument
- Determination of the optimal conditions
- Calibration of the instrument
- Results interpretation
- First level maintenance



XGT/MESA-50 user training course on a HORIBA Analyzer

HOR4 eng

Reference HOR4 eng
Duration 1 day
Date September 25, 2015

Who should attend
Users of the XGT /Mesa 50 X-Ray Fluorescence Analyzer

Schedule
The training is done in the HORIBA Scientific laboratory.

Objectives

- Know how to optimize the instrumental parameters,
- Control of the analytical conditions,
- How to interpret the results.

Program

Theory

- Fundamentals of X-Ray fluorescence
- Specificity of the XGTs
- Specificity of the MESA-50
- Presentation of the softwares

Practical

- Samples preparation (solid/liquid),
- Software presentation,
- Analytical conditions choices,
- Realization of a calibration,
- Identification of the different peaks in the spectra,
- Correction of spectral interferences,
- First level preventive maintenance,
- General analytical discussion.



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Reference	FormLigne
Duration	4 hours divisible
Dates	by appointment

All users of Horiba analyzers equipped with internet access

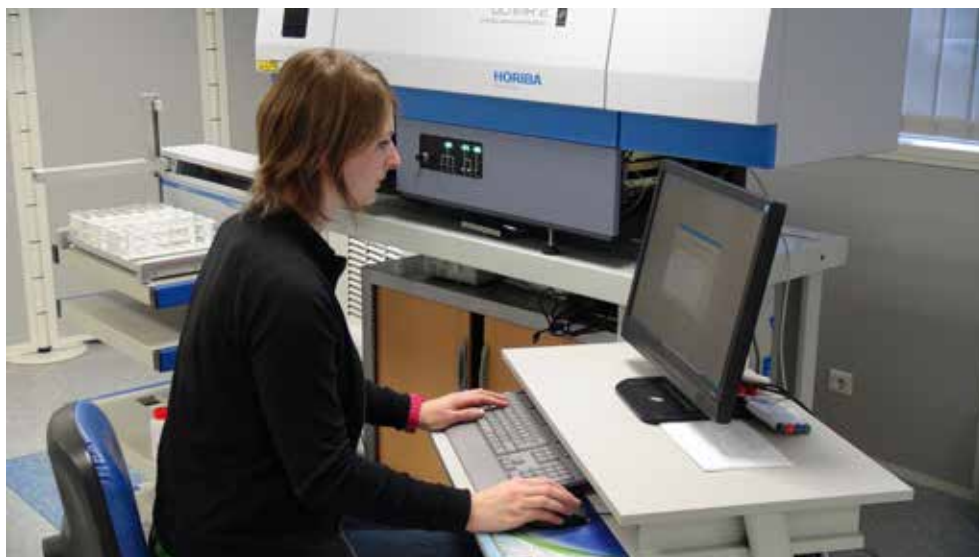
Remote training allowing the customer to follow the training in his laboratory and on his own instrument as the trainer gives the training from his own office.

Training or analytical assistance on any kind of instrument commercialized by HORIBA scientific with the possibility to use the 4 hours package in modules (30min minimum each)

To be define when taking the appointment

A first connection (free of charge) will be done to check if the connection works properly

An e-mail will be sent to the customer after each connection to keep him informed about time remaining in his package



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On site training

Formsite

Référence Formsite
Durée to be mutually agreed
Dates by appointment

Objectives

- Basic training on the techniques like training ICP-OES, GDL, GD-TOFMS
- Use of specific software (Image)
- Use of accessories
- Use of O/N/H or C/S analyser

Program

Schedule of an on-site training (example)

- Daily use of the instrument (start up, checking, routine analysis)
- Software review
- Maintenance
- Operating conditions optimization



Analytical Assistance

Assisana

Reference Assisana
Duration to be mutually agreed
Dates by appointment

Objectives

- Meet your specific needs with a customized training,
- Practice and improve your knowledge, by taking advantage from the experience of the HORIBA application specialists.

Program

Schedule of an analytical assistance (example)

- Optimization of your method
- New methods development
- Detailed review of the software
- How to manage an unknown sample?



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Registration Form

Training course:..... Date:

Family Name:..... First Name:.....

Company/Organisation:.....

Address:.....

Telephone Number:..... Fax:

Email:.....

Purchase order number:.....

Invitation letter requested: Yes No

If yes:

Passport number:.....

Date of passport validity:.....

Date of birth:.....

Place of issue (as mentioned on the passport):.....

Accommodation at hotel:.....

Date of arrival:.....

Date of departure:.....

Additional hotel dates (if requested in Paris):

Date & signature

Stamp of the company

Information

Registration: fill in the form and send it back by FAX or Email four weeks before beginning of the training.

Registration fees: the registration fees include the training courses and documentation. Hotel, transportation and living expenses are not included except lunches which are taken in the HORIBA Scientific Restaurant during the training.

Your contact: HORIBA Jobin Yvon SAS, 16-18 rue du Canal, 91165 Longjumeau, FRANCE Tel: + 33 1 64 74 18 73

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Siret Number: 837 150 366 00024

HORIBA Scientific continues contributing to the preservation of the global environment through analysis and measuring technology



Certified ISO 14001 in 2009, HORIBA Scientific is engaged in the monitoring of the environmental impact of its activities during the development, manufacture, sales, installation and service of scientific instruments and optical components. Training courses include safety and environmental precautions for the use of the instruments

Practical Information

HORIBA Scientific provides training and application courses focused on ICP, GD, Particle Size and elemental analyzers. Courses range from basic to advanced levels and are taught by application experts. The theoretical sessions aim to provide a thorough background in the basic principles and techniques. The practical sessions are directed at giving you hands-on experience and instructions concerning the use of your instrument, data analysis and software. We encourage users to raise any issues specific to their application. At the end of each course a certificate of accomplishment is awarded.

Standard, customized and on-site training courses are available in France, Germany, USA and also at your location. Dates of the training calendar 2015 are only available for HORIBA Jobin Yvon France training center.

Registration

Fill in the form and:

- Email it to: services.jyfr@horiba.com
- Or Fax it to: +33 (0)1 69 09 07 21
- More information, tel: +33 (0)1 69 74 18 73

General Information

The invoice is sent at the end of the training.

A certificate of participation is also given at the end of the training.

We can help you to book hotel accommodation.

Following your registration you will receive a package including training details and course venue map. We will help with invitation letter for visa, but HJY are not responsible for any visa refusal.

Pricing

Include refreshments, lunches during training and handbook. Hotel transportation, accommodation and evening meals are not included.

Location

Longjumeau (France, 20 km from Paris), or at your facility for on-site training courses. Training courses can also take place in subsidiaries in Germany or in the USA.

Access to HORIBA Jobin Yvon, Longjumeau

HORIBA Jobin Yvon SAS
16 - 18 rue du canal
91165 Longjumeau - FRANCE

GPS information :

Latitude : N 48°41'40.9848 " (+48°41'40.9848 ")
Longitude : E 2°17'20.0112" (+2°17'20.0112")

Depending on your means of transport, some useful information:
- if you are arriving by car, we are situated near the highways A6 and A10 and the main road N20
- if you are arriving by plane or train, you can take the train RER B or RER C that will take you not far from our offices.

We remain at your disposal for any information to access to your training place. You can also have a look at our web site at the following link:

<http://www.horiba.com/scientific/contact-us/france/visitors-guide/>



HORIBA
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