The key to your laboratory’s success

2016 Training Programme Middle East
Invest in yourself

People are the most valuable assets in any lab. We offer comprehensive, professional training and certification through a complete course portfolio that can help you achieve the most from your instrumentation and results.

Our ultimate goal is to provide you with a total solution for your analytical needs, and so we offer a wide range of training courses on:

- Instrument operation – hardware and software
- Instrument maintenance
- Software and applications

Optimal classroom settings and experienced instructors will enhance your learning experience and allow you to gain greater productivity. As professionals in their disciplines, our experienced specialists can provide a variety of education solutions to enable students to get the most value from their investment and achieve relative practical and theoretical knowledge. A range of venues are available for your convenience: On-site or at one of our Centres of Excellence.

We look forward to discussing your training needs and working with you to enable your success with our products.
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Life Sciences Mass Spectrometry
LSMS

Training: Q Exactive Mass Spectrometer – UHPLC operations in routine applications

Course objective:
The goal of the course is to provide you with a total solution for your analytical needs, with the focus on the use of Thermo Scientific™ Q Exactive™ high resolution LC-MS in forensic, clinical toxicology and food applications. Optimal small classroom settings and experienced instructors will enhance your learning experience and allow you to gain greater productivity. The course will focus on Q Exactive LC-MS operations, troubleshooting and maintenance and software and key applications in clinical/forensic/food practice.

Agenda:

Day 1:
- Thermo Scientific™ Ultimate™ 3000 system/Q Exactive mass spectrometer introduction
- Familiarisation with UHPLC
- Maintenance and troubleshooting
- Performing instrument maintenance
- Quadrupole and Thermo Scientific™ Orbitrap™ principles
- Hardware overview
- Instrument tuning and calibration

Day 2:
- Q Exactive system maintenance and troubleshooting
- Setting up the methods
- Maintaining the instrument
- Routine maintenance
- Daily operations
- Maximising the performance

Day 3:
- Software session
- Setting up the Thermo Scientific™ TraceFinder™ software
- Data acquisition
- Data processing
- Screening experiment
- Quantitative experiments
- Reporting
- Thermo Scientific™ ToxFinder™ software applications and setup

Day 4:
- Applications in routine areas
- Setting up a multi-residue method
- Tuning the instrument
- Chromatography optimisation

Available dates:
29 February to 3 March 2016
10 to 13 October 2016
Life Sciences Mass Spectrometry
LSMS

Training: TraceFinder software specialist training

Course objective:
This advanced training will provide specialist level of training with main focus on hands-on experience and training on both software solutions. Thermo Scientific™ TraceFinder™ software offers flexibility and ease of use in routine mass spectrometry labs focused on quantitation, screening and unknown analysis.

Having the right chromatography is just part of the solution – possessing the right skills and knowledge to use the software in the most efficient and effective manner is imperative.

Agenda:
Day 1:
• Introduction to TraceFinder software (installation in class)
• TraceFinder software 3.2 structure, data organisation
• Setting the methods and running samples

Available dates:
18 to 20 April 2016
Gas Chromatography-Mass Spectrometry

GC-MS

**Training: TSQ 8000 Evo GC-MS/MS operations**

**Course objective:**
The goal of the training course is to provide you with a total solution for your analytical needs, with focus on the use of the Thermo Scientific™ TSQ™ 8000 Evo GC-MS/MS in the area of routine pesticide and POPs analysis.

The course will focus on:
- Instrument operation, both hardware and software
- Instrument maintenance, troubleshooting
- Setup of multi-pesticide method and complete method workflow instructions

Optimal small classroom settings and experienced instructors will enhance your learning experience and allow you to gain greater productivity.

**Agenda:**

**Day 1:**
- TSQ 8000 Evo GC-MS/MS introduction
- Familiarisation with the GC system
- Maintenance and troubleshooting
- Triple quadrupole theory
- Hardware and maintenance
- Different scan functions
- Tuning
- Quantitative set up and processing

**Available dates:**
14 to 16 March 2016
24 to 26 October 2016
Gas Chromatography-Mass Spectrometry
GC-MS

Training: TraceFinder software specialist training

Course objective:
This advanced training will provide specialist level of training with main focus on hands-on experience and training on both software solutions. Thermo Scientific™ TraceFinder™ software offers flexibility and ease of use in routine mass spectrometry labs focused on quantitation, screening and unknown analysis.

Having the right chromatography is just part of the solution – possessing the right skills and knowledge to use the software in the most efficient and effective manner is imperative.

Agenda:
Day 1:
• Introduction to TraceFinder software (installation in class)
• TraceFinder software 3.2 structure, data organisation
• Setting the methods and running samples

Available dates:
18 to 20 April 2016
Training: Chromeleon software specialist training

Course objective:
The Thermo Scientific™ Chromeleon™ Chromatography Data System is widely regarded to be a powerful chromatography data system. As well as TraceFinder software it offers flexibility and ease of use in routine mass spectrometry labs.

Having the right chromatography is just part of the solution – possessing the right skills and knowledge to use the software in the most efficient and effective manner is imperative. This advanced training will provide specialist level of training with main focus on hands-on experience and training on both software solutions.

Agenda:

Day 1:
• Getting started
• General navigation
• Basic sequencing and programming
• Basic calibration

Day 2:
• Manual and automatic instrument operation
• Collecting data
• Data processing

Day 3:
• Advanced sequencing and programming
• Building and managing eWorkflows
• Report writing and editing

Available dates:
8 to 10 February 2016
29 to 31 August 2016
Ion Chromatography

IC

Training: Ion chromatography basics and operations

Course objective:
The goal of the course is to provide better understanding of the current IC technology, operations and main applications:

- Instrument operation – hardware and software
- Instrument maintenance
- Software and applications
- Competitive review

Optimal classroom settings and experienced instructors will enhance your learning experience and allow you to gain greater productivity. The training will provide focus on hands-on experience and practical demonstrations of all mentioned products.

Agenda:

Day 1:
- IC theory
- Key applications
- Familiarisation with the IC system
- IC system components
- Setting up the method

Day 2:
- Getting started with the Thermo Scientific™ Chromeleon™ data system
- General navigation
- Basic sequencing and programming
- Basic calibration

Day 3:
- Maintenance and troubleshooting
- Detecting, troubleshooting and rectifying common issues
- Performing instrument maintenance

Available dates:
9 to 11 May 2016
19 to 21 September 2016
Applications workshop: Forensic, toxicology and anti-doping analysis

Course objective:
The purpose of the workshop is to make you familiar with the customer requirements and the most common workflows. During this session we will concentrate on the quantitative and screening workflows using triple quadrupole and HRAM technologies.

Understanding the workflows and methods used in clinical, toxicology and anti-doping laboratories is a key part of routine laboratory work.

The workshop consists of both theory and practical instruction, to give you a deep insight into the “forensic & toxicology & anti-doping” total workflow.

Agenda:

Day 1:
- Overview of the clinical toxicology and anti-doping landscape
- Sample preparation using TurboFlow technology
- Quantitation (part 1)
- Tuning and method development on triple quadrupole and HRAM instruments
- Running a sample set

Day 2:
- Quantitation (part 2)
- Processing quantitation data using TraceFinder software
- Screening approach (part 1)
- Developing a method for targeted screening using triple quadrupole and HRAM instruments
- Running a sample set

Day 3:
- Screening approach (part 2)
- Setting up the Thermo Scientific™ TraceFinder™ and Thermo Scientific™ ToxFinder™ software for screening data processing
- New born screening workflow
- Overview of the landscape
- Processing data using IRC Pro software

Available dates:
15 to 17 February 2016
Applications workshop: Routine analysis of pesticides in food

Course objective:
The purpose of the workshop is to make you familiar with the current residue legislation, validation requirements and principles of pesticide residue analysis using different types of instrumentation (GC/LC/MS). Understanding the total workflows and methods used in residue analysis is a key part of successful routine laboratory work. The workshop consists of both theory and practical instruction to give you a deep insight into the “total sample preparation workflow”.

Agenda:

Day 1:
- Overview of residue analysis with focus on mycotoxins/pesticides/veterinary drugs
- Regulations/Validation of parameters in pesticides analysis
- Sample preparation techniques and cautions
- Practical session
- Quechers extraction of pesticides from food
- Hands-on, preparation of samples for the next days

Day 2:
- Thermo Scientific™ TSQ™ 8000 Evo GC-MS/MS analysis of pesticides in food
- Setting up the system, tuning, optimisation
- Running a real sample set
- Setting up TraceFinder software for data evaluation
- Data processing for targeted analysis

Day 3:
- Screening for contaminants in food using UHPLC-HRMS/Q Exactive mass spectrometer
- Setting up the system, tuning, optimisation
- Running a real sample set
- Setting up TraceFinder software for screening data evaluation
- Data processing for targeted and non-targeted analysis

Available dates:
18 to 20 January 2016
Training: Chromatography and mass spectrometry fundamentals

Course objective:
Chromatography coupled to mass spectrometry is a key instrumental technique used in routine labs today. Understanding the basic principles, strategies and methods is a key challenge to many laboratories operating in this field.

This basic course will focus on the most common chromatography techniques, GC, LC and UHPLC coupled to modern MS systems.

There will be a strong focus on both principles as well as practical demonstrations and exercises of discussed topics.

Agenda:

Day 1:
- Principles of chromatography and mass spectrometry
- Liquid and gas chromatography fundamentals
- Detection systems in LC and GC
- Principles of mass spectrometry

Day 2:
- Instrumentation in MS
- Types of mass spectrometers
- Ionisation techniques in modern MS
- Principles of measurement in:
  - Full scan
  - SIM
  - SRM
  - HRMS

Available dates:
31 May to 1 June 2016
Inorganic Mass Spectrometry

ICP-MS

Training: iCAP Q ICP-MS operations, troubleshooting and maintenance

Course objective:
The goal of the training course is to provide you with the knowledge necessary to perform routine as well as the most challenging tasks with your Thermo Scientific™ iCAP™ Q ICP-MS.
The course will focus on instrument operation (hardware and software), instrument maintenance and applications.

Agenda:

Day 1:
• Quadrupole ICP-MS fundamentals
• Analytical issues: Sample preparation, matrix effects
• Calibration
• Data management and processing

Day 2:
• Interferences and solutions
• Flatapole technology (Q Cell)
• Multi-elements and multi-modes analysis
• ICP-MS analysis and method development

Day 3:
• Maintenance
• Tuning
• Troubleshooting
• Application examples

Available dates:
4 to 6 April 2016
14 to 16 November 2016
Sequencing and PCR

Training: Ion S5 and S5 XL Systems workflow training

Course objective:
This interactive course focuses on the Ion S5™ and Ion S5™ XL Systems operation and the Ion AmpliSeq™ workflow on the Ion Chef System™ for sequencing. The course includes three modules covering the workflow:

• Ion AmpliSeq library construction and quality control
• Instrument operation for the preparation of template positive Ion Sphere™ particles (using the Ion Chef System) and sequencing
• A basic introduction to data analysis including validation of the run and introduction to Ion Reporter™ Software

Please note that this training does not include analysis of customer supplied samples.

Agenda:

Day 1
• Welcome and agenda
• Ion AmpliSeq library preparation workflow and quality control
• Introduction to the Ion S5 and Ion S5 XL Systems workflow
• Template preparation – Setup and start of the Ion Chef System
• Q&A

Day 2
• Setup of the Ion S5 and/or Ion S5 XL System, and start of instrument
• Introduction to Torrent Server
• Review and validation of data
• Introduction to Ion Reporter Software
• Introduction to applications
• Q&A

The agenda may slightly change depending on new protocols launched over time.

Available dates:
26 to 27 January 2016
17 to 18 May 2016
2 to 3 November 2016
Sequencing and PCR

Training: Ion PGM System workflow training

Course objective:
A 3-day intensive overview of the Ion Torrent™ technology and the Ion PGM™ System. The course includes three modules covering the workflow:
- Ion AmpliSeq™ library construction and QC
- Instrument operation for sphere preparation (Ion Chef™ System) and sequencing
- Basic data analysis including validation of the run and introduction to Ion Reporter™ Software

Agenda:
Day 1 – Library construction
- Ion University, overview of the Ion workflow
- Introduction to library workflows
- Construction, quantification and QC of an Ion AmpliSeq library
- Template reaction overview and setup of 2 reactions

Day 2 – Enrichment and sequencing
- Enrichment of ISPs, QC
- Cleaning and initialisation of the Ion PGM instrument
- Chip loading of the sample
- Torrent Browser overview

Day 3 – Data analysis
- Review of the run and QC
- Introduction to data analysis, including primary analysis, Variant Caller and Ion Reporter Software

Available dates:
1 to 3 February 2016
25 to 27 April 2016
3 to 5 October 2016
21 to 23 November 2016
Training: Ion Proton System workflow training

Course objective:
A 3-day intensive overview of the Ion Torrent™ technology and the Ion Proton™ System. The course includes three modules covering the workflow:
• Fragment library construction and QC
• Instrument operation for sphere preparation (Ion Chef™ System) and sequencing
• Basic data analysis including validation of the run and introduction to Ion Reporter™ Software

Agenda:

Day 1 – Library construction
• Ion University, overview of the Ion workflow
• Introduction to library constructions
• Generate a fragment library
• Template reaction set up

Day 2 – Enrichment and sequencing
• Enrichment of ISPs, QC
• Cleaning and initialisation of the Ion Proton instrument
• Chip loading of the sample
• Torrent Browser overview

Day 3 – Data analysis
• Review of the run and QC
• Introduction to data analysis, including primary analysis, Variant Caller and Ion Reporter Software

Available dates:
29 to 31 March 2016
26 to 28 September 2016
Sequencing and PCR

Training: Introductory DNA sequencing and fragment analysis training

Course objective:
Attending this course will support the proper operation of the Applied Biosystems™ 3500/3500xl Genetic Analyzers for both sequencing and fragment analysis applications, to maximise throughput and obtain high quality data.

The course is designed for any individual who is responsible for the operation of the 3500/3500xl Genetic Analyzers and wishes to familiarise themselves with the instrument, software and interpretation of data.

At the end of the course participants will be able to:
• Demonstrate knowledge of automated sequencing, fragment analysis technology and instrumentation
• Choose the most appropriate chemistry for a given application
• Identify methods of fluorescent labelling of fragments
• Load samples
• Set up and run the instrument
• Use collection and analysis software
• Carry out routine maintenance of the instrument

Agenda:
Day 1 – Sequencing
• Principles of cycle sequencing
• Analysing sequencing data using dedicated software
• Optimising sequencing reactions
• Troubleshooting common problems

Day 2 – Instrument operations
• Operation of the instrument
• Spectral & spatial calibration
• Collecting data
• Maintenance

Day 3 – Fragment Analysis
• Principles of fragment analysis
• Fragment analysis applications
• Analysis of fragment analysis data with dedicated software
• Optimising fragment analysis reactions
• Troubleshooting common problems

Available dates:
22 to 24 February 2016
23 to 25 May 2016
17 to 19 October 2016
Sequencing and PCR

Training: Real-time PCR (qPCR) instruments and applications training

Course objective:
This course is designed to give real-time PCR users who want to start gene expression or genotyping experiments a detailed knowledge of the complete workflow with the aim of completing a successful gene expression/genotyping experiment. Subsequent data analysis is taught and practised with our qPCR system software.

Agenda:

Day 1 – Instrument
• Learn how to use and maintain your qPCR instrument
• Understand principles of real-time PCR
• Setup and run a plate, analyse and export your run data

Day 2 – Gene expression
• Learn how to design and perform gene expression experiments in qPCR
• Assay choice
• Sample preparation
• Quantitation/normalisation methods
• Basic statistics
• How to use our software packages (ExpressionSuite™ Software)

Day 3 – Genotyping
• How to translate genomic variability to genotyping experiments
• Designing related Applied Biosystems™ TaqMan™ SNP assays
• Find CNVs (Copy Number Variations), Applied Biosystems™ TaqMan™ CNV assays and related information
• Complete the genotyping workflow, set up genotyping experiments for SNPs and CNVs and apply primary analysis of your qPCR runs
• Complete project analysis using Applied Biosystems™ TaqMan™ Genotyper and Applied Biosystems™ TaqMan™ CopyCaller™ Software
• Statistics- apply values such as ‘quality value’ and confidence metrics for genotyping data
• Troubleshooting genotyping data for SNP and CNV projects

Available dates:
7 to 9 March 2016
6 to 8 June 2016
7 to 9 November 2016
Sequencing and PCR

qPCR school

Course objective:
This course is intended for all experienced users of conventional PCR who plan to start with real-time PCR, as well as users who would like to learn more about background, applications and optimisation e.g., scientists, biological and medical technicians.

The aim of this course is to become familiar with the theory and practice of real-time PCR and to learn the most cost-effective way to set-up, run and analyse the experiments. Participants will also have the opportunity to discuss their real-time PCR experiments with application support specialists, and to discover new real-time PCR development methods.

Agenda:
Day 1 – qPCR
- Principles of and workflows using real-time PCR
- Applications for quantitative and qualitative analysis
- Absolute and relative quantification
- Sample preparation: Choice of the correct extraction/purification method
- Assay design: From sequence to primer and probe
- Software set up and analysis
- Experimental optimisation and validation

Available dates:
Available on request
Cell analysis

**Training: Attune NxT cytometer training**

**Course objective:**
This interactive course focuses on operation and maintenance of the Invitrogen™ Attune™ NxT Flow Cytometer.

**Agenda:**

**Day 1 – Flow cytometry**
- Introduction to flow cytometry
- Attune NxT cytometer
- Instrument setup
- Overview of the Attune NxT software
- Experiment setup and data acquisition
- Single colour lab exercise
- Post-acquisition analysis tools

**Day 2 – Flow cytometry**
- Review of day 1
- Compensation – theory and activity
- Compensation – multicolour lab exercise
- Advanced software tools and data management
- Attune NxT cytometer maintenance
- Basic troubleshooting
- Review of training
- Resources – Q&A

**Available dates:**
11 to 12 April 2016
5 to 6 September 2016
### Training schedule 2016

#### Course calendar January–June 2016

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#### Course calendar July–December 2016

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How to register

For further information or to register on any of the courses listed, please use the following:

Email: 
training.cmd.eu@thermofisher.com

Phone: +971 (0) 44 398 102  Fax: +971 (0) 553301575

Web:
For sequencing, PCR and cell analysis, please visit:
https://learn.thermofisher.com/europe

For LSMS, chromatography and inorganic mass spectrometry, please visit:
http://www.thermoscientific.com/eutraining

Address:
Thermo Fisher Scientific Middle East
DUBIOTECH
Dubai Science Park
Laboratory Complex Building, Floor 3 (Suite 307-308)
P. O Box 500722, Dubai, UAE

Cancellation policy

• We reserve the right to cancel any course until 30 calendar days prior to the scheduled start date, due to insufficient enrollment

• We reserve the right to change the venue of the course until 30 calendar days prior to the scheduled start date

• In the event of a venue change, you will be notified by a Thermo Fisher Scientific representative

• Thermo Fisher Scientific will not be responsible for expenses incurred (for example, non-refundable airline reservations) if the course is cancelled or moved until 30 calendar days prior to the scheduled start date

• Attendee substitutions may be made at any time upon notification of the Training Institute Co-ordinator, subject to applicable laws

• Enrollment in your desired training course(s) is not guaranteed until receipt of the registration documents, confirmed method of payment and registration confirmation by Thermo Fisher Scientific

Refund policy

• 100% refund for cancellations received 15+ business days prior to course date

• 50% refund for cancellations received until 10-15 business days prior to course date

• No refund for cancellations received fewer than 10 business days prior to course date

• No refund for no-shows