

# Unity Lab Services Training Courses

the key to your laboratory's success

**2013 Training Programme**  
UK and Ireland, Dionex Products



# Invest in Yourself

People are the most valuable assets in any lab. Unity Lab Services offers comprehensive, professional training and certification through a complete course portfolio that can help you obtain the most out of your instrumentation and results.

Our ultimate goal is to provide you with a total solution to your analytical needs. To meet this goal, we offer a wide range of training courses on:

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

Optimal classroom settings and world-class instructors will enhance your learning experience, and allow you to gain greater productivity. As experts in their disciplines, our experienced specialists can provide a variety of education solutions to ensure that students are able to obtain the most value from their investment, and achieve relative practical and theoretical knowledge. A variety of venues is available for your convenience: on-site or at one of our European Training Institutes and demo centers.

We are looking forward to discussing your training needs and working with you to ensure your success with our products.



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# Dionex Chromeleon Software



Today's laboratories face many challenges such as maximising productivity, improving quality, controlling costs, complying with regulations and coping with change. Facing all these challenges becomes significantly easier when you have the right chromatography software. Dionex Chromeleon is widely regarded to be the most powerful chromatography data system and can help you meet these needs. However, 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.

Our extensive range of software training is designed to provide you with the necessary tools to increase your Dionex Chromeleon skills. We have also developed a series of workshops which can be attended separately or combined to provide a tailored programme of courses.

All training is provided by experienced software specialists who have extensive knowledge and have helped analysts from many of the world's leading organisations to achieve their objectives. We have developed hands-on Dionex Chromeleon training techniques which provide the ideal method of study for chromatography data systems.

## Introduction to Dionex Chromeleon 7.1 – Level 1

### Course Outline

- Getting started.
- General navigation.
- Basic sequencing and programming.
- Basic calibration.
- Manual and automatic instrument operation.
- Collecting data.
- Data processing.
- Specially requested topics (time permitting).

### Who Should Attend?

This course has been designed for chromatographers who are new to the Dionex Chromeleon workstation or for existing users who require refresher training.

*Duration: 1 day*



# Dionex Chromeleon Software



## Next Steps in Dionex Chromeleon 7.1 – Level 2

### Course Outline

- Advanced sequencing and programming.
- Building and managing eWorkflows.
- Report writing and editing.
- Queries.
- System suitability testing.
- Specially requested topics (time permitting).

### Who Should Attend?

This course has been designed for experienced users of Dionex Chromeleon or delegates who have attended the introduction course.

*Duration: 1 day*

## Introduction to Dionex Chromeleon 6.8 — Level 1

### Course Outline

- Getting started.
- General navigation.
- Manual instrument operation.
- Setup and execution of automated runs.
- Working with data.
- Basic integration.
- Basic calibration and quantification.
- Basic reporting and report editing.
- Specially requested topics (time permitting).

### Who Should Attend?

This course has been designed for chromatographers who are new to the Dionex Chromeleon workstation or for existing users who require refresher training.

*Duration: 1 day*

## Next Steps in Dionex Chromeleon 6.8 – Level 2

### Course Outline

- Understanding client/server architecture.
- System configuration.
- Data management.
- The Dionex Chromeleon database.
- Understanding and using Dionex Chromeleon dynamic updating.
- Intermediate-level data processing.
- Report customization.
- Specially requested topics (time permitting).

### Who Should Attend?

This course has been designed for experienced users of Dionex Chromeleon or delegates who have attended the introduction course.

*Duration: 1 day*



# Ion Chromatography (IC)



## Ion Chromatography New Operator Course

### Course Outline

The course covers the basic ion chromatography theory with explanation as to how each component of the system functions, ensuring the operator can perform basic analysis together with a useful understanding of ion chromatography instrumentation, including automation.

Courses are grouped to maximise the best utilization for the operator on their particular product line.

### Who Should Attend?

The courses are designed to help users who are new to the technique and instrumentation of Ion Chromatography or for those who want to enhance their theoretical understanding of Ion Chromatography

### Which Systems Are Covered?

Thermo Scientific Dionex ICS-90, Dionex ICS-900, Dionex ICS-1000, Dionex ICS-1100, Dionex ICS-1500, Dionex ICS-1600, Dionex ICS-2000, Dionex ICS-2100, Dionex ICS-3000, Dionex ICS-5000.

*Duration: 1 day*

## Ion Chromatography Maintenance and Troubleshooting

### Course Outline

The maintenance and troubleshooting courses will assist those undertaking basic maintenance of their Ion Chromatography systems. The courses cover front line hardware maintenance, column care and assist the operator in developing troubleshooting skills.

Courses are grouped to maximise the best utilization for the customer on their particular product line.

### Who Should Attend?

These courses would suit users who have attended the new operator courses or who are confident in the use of Ion Chromatography system and wish to carry out front line maintenance.

### Which Systems Are Covered?

Thermo Scientific Dionex ICS-90, Dionex ICS-900, Dionex ICS-1000, Dionex ICS-1100, Dionex ICS-1500, Dionex ICS-1600, Dionex ICS-2000, Dionex ICS-2100, Dionex ICS-3000, Dionex ICS-5000.

*Duration: 1 day*



## New Operator Course for Dionex UltiMate HPLC Systems

### Course Outline

- A basic introduction to HPLC.
- Understanding of the practical aspects of the instrument.
- Practical tips to improve system performance.
- Information regarding useful operation parameters.
- An overall familiarisation of the Dionex UltiMate 3000 System.

### Who Should Attend?

This course has been designed for new users or potential users of the Dionex UltiMate 3000 HPLC and Dionex Ultimate 3000 RSLC (Rapid Separation).

*Duration: 1 day*

## Maintenance and Troubleshooting for Dionex UltiMate HPLC Systems

### Course Outline

- Effectively detecting, troubleshooting and rectifying common issues.
- Performing instrument maintenance.
- Carrying out relevant diagnostic tests.
- Experience from hands-on laboratory exercises.
- Replacing common HPLC parts.

### Who Should Attend?

This course would suit users who have attended the new operator courses or who are confident in the use of the Dionex UltiMate 3000 HPLC and Dionex Ultimate 3000 RSLC (Rapid Separation) and wish to carry out front line maintenance.

*Duration: 1 day*



# Nano & Capillary LC Systems



## New Operator Course for Dionex UltiMate 3000 Nano and Capillary LC Systems

### Course Outline

- Basic introduction to Nano and Capillary LC.
- Application capability using Dionex UltiMate 3000 Nano and Capillary LC Systems (limited Overview).
- Understanding of the practical aspects of the instruments.
- Practical tips to improve operation.
- Information regarding useful operation parameters.
- An overall familiarisation of the instrumentation.

### Who Should Attend?

This course is ideal for new or potential users of the Dionex UltiMate 3000 Nano and Capillary LC Systems.

This course is offered as an on-site only.

Duration: 1 day

## Maintenance and Troubleshooting for Dionex UltiMate Nano and Capillary LC Systems

### Course Outline

- Ability to effectively detect, troubleshoot and rectify common issues.
- Performing instrument maintenance.
- Hands-on laboratory exercises.
- Capability to replace parts on the Dionex UltiMate 3000 System modules.

### Who Should Attend?

This course has been designed for users who are familiar with the use and operation of the Dionex UltiMate 3000 System and/or have attended the new operator course for Dionex UltiMate 3000 Nano and Capillary LC Systems.

This course is offered as an on-site only.

Duration: 1 day





# Sample Preparation

## Accelerated Solvent Extraction



### Introduction to Accelerated Solvent Extraction (ASE®)

#### Course Outline

- Theory of Accelerated Solvent Extraction.
- Sample operation.
- Method development using ASE technology.
- Optimising extraction conditions.
- Overview of instruments operation.

#### Who Should Attend?

This course is suitable for users of any Thermo Scientific Dionex ASE Accelerated Solvent Extractor product to develop their skills and understanding of the Dionex ASE™ systems.

*This course is offered as an on-site only.*

*Duration: 1 day*

### Maintenance and Troubleshooting for Accelerated Solvent Extraction

#### Course Outline

- Troubleshooting Dionex ASE Systems.
- Performing instrument maintenance.
- Hands-on laboratory exercises.
- Replacing essential parts when required.

#### Who Should Attend?

This course has been designed for users of any Dionex ASE product who want to develop their practical skills using ASE technology. This course is ideal as a follow up from the Accelerated Solvent Extraction Course.

*This course is offered as an on-site only.*

*Duration: 1 day*



# On-Site Training Course



## Course Description

On-site training provides your company with the opportunity to create a custom made course which meets your specific requirements. Customised training courses of various length and content can be designed and held in your training facility, laboratory or at one of our locations.

### Courses can include any of the topics covered in the previous pages plus:

- Software Features for Photodiode Array Detection.
- Software Features for Report Publishing.
- Using Dionex Chromeleon to Comply with 21 CFR 11.
- Dionex Chromeleon Software Features for Administrators.
- IT Administrator.
- Advanced Software Features for Fraction Collection.
- Introduction to the Basic Theory of Ion Chromatography.
- Specified IC Chromatography Courses.
- Specific HPLC and Nano Chromatography Courses (See Page 4 & 5).
- Dionex ASE instruments– (See Page 6).
- Dionex Chromeleon 6.8 Advanced – Level 3.
- Thermo Scientific Dionex AutoTrace Solid Phase Extraction.
- Electrochemical and CAD Detectors.

### Benefits of On-Site Training

- The course will accommodate the experience level of your analysts.
- The course topics can be focused on your chromatography system and application.
- You control and determine the class size – up to six people.
- On-site courses minimize employee travel time and expense.



# Training Schedule 2013



COURSE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Introduction to Dionex Chromeleon 7.1 – Level 1	22	5			14			20	17	8		
Next Steps in Dionex Chromeleon 7.1 – Level 2		6			15			21		9		
Introduction to Dionex Chromeleon 6.8 – Level 1	25		5					6	20			
Next Steps in Dionex Chromeleon 6.8 – Level 2			6					7				
Ion Chromatography New Operator Course	23	19		23			23		18		19	
Ion Chromatography Maintenance and Troubleshooting	24	20		24			24		19		20	
New Operator Course for Dionex Ultimate 3000 HPLC Systems						4						
Maintenance and Troubleshooting for Dionex Ultimate 3000 HPLC Systems						5						



# How to Register

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

**Email:** [unity.training.eu@thermofisher.com](mailto:unity.training.eu@thermofisher.com)

**Phone:** + 44(0) 1442 233555

**Fax:** +44(0) 1442 233667

**Web:** [www.unitylabservices.com](http://www.unitylabservices.com)

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## Cancellation Policy

- We reserve the right to cancel any course, 30 calendar days prior to the scheduled start date, due to insufficient enrollment.
- We reserve the right to change the venue of the course, 30 calendar days prior to the scheduled start date.
- In the event of a venue change, you will be notified by a Unity Lab Services representative.
- Thermo Fisher Scientific will not be responsible for expenses incurred (for example, non-refundable airline reservations) if the course is cancelled or moved 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.
- Enrollment in your desired training course(s) is not guaranteed until receipt of the registration documents and confirmed method of payment.

## Refund Policy

- 100% refund for cancellations received 15+ business days prior to course date.
- 50% refund for cancellations received 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.

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