



# Dionex Training

## 2011 Courses and Schedule



## Course Offerings

### Chromeleon

**Chromeleon® Basic Level Operator:** This beginner-level course is designed for chromatographers new to the Chromeleon Chromatography Data System (CDS) software. The course covers all basic aspects of Chromeleon software, allowing a new user to perform all steps required to operate their chromatography system and run, process and report samples. *Chromeleon 6 and Chromeleon 7 CDS Software Training Courses are offered concurrently in Bannockburn.* Class duration is 1 day.

**Chromeleon Intermediate Level Operator:** This intermediate-level course is designed to expand your Chromeleon CDS software skills developed through practical experience or through the Level 1 class. Building on the foundation of the Level 1 class, this course extends the detail and scope of the principles learned, allowing the user to achieve higher levels of flexibility and automation within Chromeleon software. *Chromeleon 6 and Chromeleon 7 Training Courses are offered concurrently in Bannockburn.* Class duration is 1 day.

**Chromeleon Advanced Level Operator:** This advanced-level course covers advanced features within Chromeleon CDS software that allows a user to achieve the highest levels of functionality and automation. Building on the foundation of the intermediate class, this course explores the advanced capabilities of Chromeleon software for instrument control, data processing, reporting, and data management. Class duration is 1 day.

### HPLC

**HPLC Basics with Electrochemical Detector Theory and Operation:** At the end of this three-day course, participants will have practical and theoretical knowledge of HPLC system operation and maintenance. This training will also help individuals better understand the use of the Coulochem® III and CoulArray® detectors. Class duration is 3 days.

**Introduction to the Principles and Practices of HPLC:** This course introduces scientists to the basic concepts and operational principles of HPLC with an emphasis on Reversed-Phase HPLC. The class makes extensive use of computer animation to explain basic principles, show instrument operation and to explain chromatography troubleshooting. Class duration is 1 day.

**UltiMate® 3000 Operation, Maintenance, and Troubleshooting:** This course has been designed for new users of the UltiMate HPLC systems, or those who want to refresh their knowledge to get the most from their HPLC system. The course focuses on system- and module-level hands-on operation and troubleshooting. Class duration is 2 days.

**UltiMate 3000 nanoLC Operation, Maintenance, and Troubleshooting:** This course is designed for new users of the UltiMate 3000 nanoLC and UltiMate 3000 LC systems. The course focuses on system- and module-level hands-on operation and troubleshooting. Class duration is 2 days.

**Transferring Analytical HPLC Methods to Fast LC:** This training course focuses on the practical implications of transferring your analytical methods to Rapid Separation Liquid Chromatography (RSLC) or Fast LC separations. The theoretical fundamentals of RSLC will be discussed. The key parameters affecting RSLC and their influence on resolution, capacity, efficiency, and selectivity will be discussed. UltiMate 3000 RSLC systems will be used extensively in practical lab sessions during the course to demonstrate RSLC concepts. Class duration is 1 day.

### Ion Chromatography

**Basic IC Operation and Troubleshooting:** This instrument-specific course is designed to increase the skill level of new users of Ion Chromatography (IC) systems. Each course includes operation/troubleshooting and basic maintenance of a specific hardware configuration and includes hands-on laboratory exercises to familiarize new users with all aspects of IC. Class duration is 2 days.

**Advanced IC Operation and Troubleshooting:** This instrument-specific course is designed to increase the skill level of experienced users of IC systems and is intended for experienced chromatographers who have completed Dionex Basic IC training. Topics covered include operation/troubleshooting and preventative maintenance of specific hardware configurations and includes hands-on operation and troubleshooting with specific laboratory exercises to familiarize experienced users with these important issues. Class duration is 2 days.

**Method Development in Ion Chromatography:** This course, for advanced IC users, provides an intensive one-day training session in column selection, eluent systems and sample preparation based on a solid foundation of ion chromatographic theory. Class duration is 1 day.

**Carbohydrate Determination by Pulsed Amperometric Detection:** This course reviews the principles and practice of HPAE-PAD. The major areas of focus will be HPAE-PAD methods for monosaccharide, oligo- and polysaccharide, sialic acid, and sugar alcohol determinations. Class duration is 1.5 days.

### Sample Preparation

**ASE® and AutoTrace® Systems Training:** Each course will cover basic and intermediate training in the operation, maintenance and method development for accelerated solid-phase extraction. The first two days will cover ASE operational training and the last day will focus on the new AutoTrace instrument. Customers may choose to sign up for the entire three-day course or for the ASE and AutoTrace portions separately. Class duration is 3 days.

### Mass Spectrometry

**Training for the MSQ Detector Family:** Get the most from your MSQ detector. This course is designed for experienced chromatographers who are also familiar with Chromeleon software. Topics covered include basic IC/MS and LC/MS operation, detection optimization, mass spec interpretation, and MSQ user maintenance. Class duration is 4 days.

## Course Schedule and Locations

**CM6 & CM7:** 07/25 - Bannockburn Center of Excellence  
**CM6 & CM7:** 08/22 - Bannockburn Center of Excellence  
**CM6 & CM7:** 09/19 - Bannockburn Center of Excellence  
**CM6:** 09/27 - ESA Center of Excellence  
**CM7:** 09/29 - ESA Center of Excellence

**CM6 & CM7:** 10/17 - Bannockburn Center of Excellence  
**CM6:** 10/25 - Sunnyvale Center of Excellence  
**CM7:** 10/27 - Sunnyvale Center of Excellence  
**CM6 & CM7:** 11/07 - Bannockburn Center of Excellence  
**CM6 & CM7:** 12/5 - Bannockburn Center of Excellence

**CM6 & CM7:** 07/26 - Bannockburn Center of Excellence  
**CM6 & CM7:** 08/23 - Bannockburn Center of Excellence  
**CM6 & CM7:** 09/20 - Bannockburn Center of Excellence  
**CM6:** 09/28 - ESA Center of Excellence  
**CM7:** 09/30 - ESA Center of Excellence

**CM6 & CM7:** 10/18 - Bannockburn Center of Excellence  
**CM6:** 10/26 - Sunnyvale Center of Excellence  
**CM7:** 10/28 - Sunnyvale Center of Excellence  
**CM6 & CM7:** 11/08 - Bannockburn Center of Excellence  
**CM6 & CM7:** 12/06 - Bannockburn Center of Excellence

**CM6:** 09/12 - Bannockburn Center of Excellence  
**CM7:** 09/13 - Bannockburn Center of Excellence

05/17 – 05/19 - ESA Center of Excellence  
 10/04 – 10/06 - ESA Center of Excellence

08/24 - Bannockburn Center of Excellence  
 12/07 - Bannockburn Center of Excellence

07/27 – 07/28 - Bannockburn Center of Excellence  
 09/21 – 09/22 - Bannockburn Center of Excellence

10/19 – 10/20 - Bannockburn Center of Excellence  
 11/09 – 11/10 - Bannockburn Center of Excellence

09/23 - Bannockburn Center of Excellence  
 11/11 - Bannockburn Center of Excellence

**ICS5000/3000:** 07/27 – 07/28 - Bannockburn Center of Excellence  
**ICS1100/1600/2100:** 08/24 – 08/25 - Bannockburn Center of Excellence  
**ICS1100/1600/2100:** 09/21 – 09/22 - Bannockburn Center of Excellence  
**ICS5000/3000:** 11/09 – 11/10 - Bannockburn Center of Excellence

**ICS1100/1600/2100:** 10/04 – 10/05 - Bannockburn Center of Excellence  
**ICS5000/3000:** 10/19 – 10/20 - Bannockburn Center of Excellence  
**ICS5000/3000:** 12/07 – 12/08 - Bannockburn Center of Excellence

10/21 - Bannockburn Center of Excellence

08/10 – 08/11 - Bannockburn Center of Excellence

03/15 – 03/17 - Salt Lake City Technical Center  
 06/14 – 06/17 - Salt Lake City Technical Center

10/11 – 10/14 - Sunnyvale Center of Excellence

## Training Option Comparison

### Web-Based Training

Dionex web-based software training is an interactive training session to advance your knowledge of the Chromeleon software. The participant and instructor will navigate through the software, each having full control to demonstrate and practice various software functions.

Choose from two web-based training courses: On Demand (customizable and interactive) or Scheduled Topics (web-based presentations on specific topics).

Other hardware related topics can be covered by request.

### Onsite Training

Do you have a larger group to train? Or, perhaps you would like to have training on your own instruments (HPLC, IC and sample preparation). We are pleased to train you at your facility. Your onsite training session can include any combination of our standard training courses and/or customized courses to meet individual needs.

### Training Center Courses

In North America, most training courses take place at the Dionex North American Customer Support Center in Bannockburn, IL. Other training courses are offered at training facilities in Chelmsford, MA, Salt Lake City, UT, and Sunnyvale, CA.

All courses are posted on the North American training calendar at [www.dionex.com/training](http://www.dionex.com/training)

Option	Premier Discount	Save Travel Expenses	Customized to Your Needs
Onsite	✓	✓	✓
Training Center	✓		
On Demand Web-Based		✓	✓
Scheduled Topics: Web-Based		✓	

## Training Centers Information

### Centers of Excellence

Bannockburn, Illinois;  
Chelmsford, Massachusetts

The Dionex North American Customer Support Centers has been designed with training in mind. The facilities house state-of-the-art training rooms, a main laboratory, and a software training laboratory. Whenever possible, training sessions include extensive interactive hands-on exercises for maximum training effectiveness. All required instrumentation, accessories, and computer workstations are provided.

### Salt Lake City Technical Center

Salt Lake City, Utah

In North America, ASE and AutoTrace sample preparation instrument training classes are held at the Dionex Salt Lake City Technical Center (SLCTC) located at the base of the Wasatch Front mountain range in the state of Utah. Training classes are conducted in a laboratory featuring four ASE and three AutoTrace systems for hands-on operational training.

### Sunnyvale Center of Excellence

Sunnyvale, California

Dionex headquarters are located in Sunnyvale, California in the heart of the dynamic Silicon Valley and feature a state-of-the-art laboratory and training facility. All required instrumentation, accessories, and computer workstations are provided for training courses.



Dionex products are designed, developed, and manufactured under an ISO 9001 Quality System.

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