2024 North America CUSTOMER TRAINING

January - June

PerkinElmer brings you the best laboratory and applications service in the industry, the quality consumables you need to optimize performance, and **stellar customer training** – when and where you need it.

PerkinElmer

			CENTERS OF EXCELLENCE		
Course	**Course #**	**Virtual Training**	**Shelton**	**Downers Grove, IL**	**Fort Collins, CO**
AA Flame Operator Training	N0205001		Feb 26-27		
AA Graphite Furnace Operator Training	N0200017		Feb 28-Mar 1		
AA Advanced Furnace Operator Training	N0200024		email for availability		
ICP-OES Avio/Optima Operator Training	N0236068	Feb 12-13 March 20-21 April 18-19 June 6-7			
ICP-OES Avio/Optima Operator Training	N0205010		March 11-13 May 6-8	April 22-24 June 4-6	April 1-3
ICP-OES Avio/Optima Advanced Operator Training	N0200027		March 14-15 May 9-10	April 25-26	April 4-5
ICP-MS NexION 300/350/1000/1100/2000 Operator	N0236069	Jan 16- 18 Feb 21-23 March 13-15 May 29-31 June 18-20			
ICP-MS NexION 300/350/1000/1100/2000 Operator Training	N0200193		March 18-22	Jan 29-Feb 2 March 4-8	Feb 12-16
ICP-MS NexION 2200 Operator Training	N0239888		May 13-17		
ICP-MS NexION 5000 Operator Training	N0236085		April 1-5	June 24-28	
GC Fundamentals Operator Training	N0200407		email for availability		
GC-MS Clarus Operator Training	N0200417		April 16-19	Feb 27-Mar 1	
GC-MS 2400 Operator Training	N0239857		May 14 – 17		
LC Fundamentals Operator Training	N0200501		email for availability		
LC-MS/MS QSight 3Q Operator Training	N0233071		email for availability		
LC-MS/MS QSight 3Q Operator Training	N0233042		email for availability		
CDS TotalChrom Principles	N0201043		email for availability		
FT-IR Intro to Spectroscopy	N0200126		email for availability		
FT-IR Spectral Interpretation	N0200152		email for availability		
TEA Intro to Differential Scanning Calorimetry (DSC)	N0200607		email for availability		

REGISTER FOR TRAINING IN 3 EASY STEPS AND SECURE YOUR SPOT!

1. Click to create a user profile >
2. Click to email copy of Sales Order Confirmation (SOC) with first and last name, email, class name, date, and desired location.
3. Happy training

2024
CUSTOMER TRAINING
Course Descriptions and Objectives

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Atomic Spectroscopy

Atomic Spectroscopy courses provide the analyst with the knowledge and skills needed for operating, optimizing and troubleshooting including:

- Technical introduction/features
- Setting up element parameter file
- Background correction
- Optimization and calibration
- Flame emissions analysis
- Interferences and Matrix Modifiers
- Maintenance and Quality Control

Inductively Coupled Plasma Optical Emission Spectrometry

ICP-OES courses provide analysts with emission theory and the knowledge to develop a method for analysis of complex samples. Courses include the following topics:

- Identifying interferences
- Inter-element correction factors
- Using internal standards
- Multicomponent spectral fitting

ICP-MS Inductively Coupled Plasma Mass Spectrometry

Courses will cover the NexION series of ICP-MS along with the following topics:

- Theory and method development
- Hardware overview
- NexION software training
- Optimization and instrument setup
- Universal Cell Technology (UCT)
- Data acquisition, visualization, reporting
- Troubleshooting and maintenance
- Reporting and data exporting
- Interference and correction tools

Gas Chromatography

GC courses provide an overview of the basic principles, hardware, and operational techniques including:

- Basic principles of GC
- Starting a chromatograph
- Hardware, gases, injectors, column installation, flow measurements detectors
- Setup of GC and data handling
- Qualitative and quantitative analysis
- Principles and optimization of data-handling parameters

GC/MS

GC/MS courses provide users with orientation to the hardware, software, and experimental requirements including:

- System maintenance and software troubleshooting procedures
- Connecting the GC and MS
- Spectral data processing and cold starting the instrument
- Library searching, Instrument Tuning
- Method for construction and data analysis
- Instrument control, data acquisition
- MS method for quantization and GC control method

Liquid Chromatography

LC courses provide an overview of the principles and practice of high-performance liquid chromatography including:

- History and theory of LC
- Modes of HPLC
- Hardware components
- Peak identification and method development
- Application overview
- Troubleshooting and maintenance
- Basic chromatographic parameters
- Hardware familiarization

LC/MS

LC/MS courses cover an overview of the fundamentals of mass spectrometry along with the following:

- QSight technology
- SimplicityChrom™ software
- Basic applications, maintenance, technology
- Creating LC/MS/MS methods
- Mass calibration
- Setting up batches
- Acquiring data, data analysis
- Demonstration data using SimplicityChrom™ software

CDS Chromatography Data Systems

CDS courses provide users with a fundamental knowledge of the theory and operation including:

- System overview
- PerkinElmer Intelligent Interface
- Software configuration
- Peak detection and identification
- Generation and calibration of method files
- Data acquisition
- Graphic reprocessing
- Comparing chromatographs
- Generation of sequences

Molecular Spectroscopy

Molecular Spectroscopy courses provide instruction in theory, instrumentation, and maintenance for both reflectance and transmission studies along with the following:

- IR theory and advantages
- Instrument parts, maintenance, validation, troubleshooting
- Software operation
- Sample preparation using the UATR
- Casting films on IR transparent windows
- KBr pellet making, Gas cell preparation