



2025 TRAINING BROCHURE

Learn

Achieve

Know

Perform

Discover

Lead

Solve

Acquire

Waters™

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Training Offerings

On-Site Training

Microsep offers programmed training courses on-site to facilitate training implementation and individual attention for each delegate in their familiar environment. To ensure maximum delegate engagement, a maximum of 4 delegates can be accommodated.

Courses Covered

Detailed descriptions can be found on page 4 – 9.

- Waters Core Chromatography Training
- Data Acquisition, Processing and Reviewing in Empower
- Empower 3 - Custom Fields and Reports
- Empower 3 - Admin Tools for Productivity
- Using the PDA Detector with Empower 3 Software
- Mass Spectrometry Training



Other training requests

- We will work with you to develop a curriculum that meets your educational goals and scheduling requirements.
- The Fee Structure for customized onsite training is determined by the number of delegates, days of instruction and course content.
- Please contact your local sales consultant to discuss your needs.
- Information request can also be sent to waters.apps@microsep.co.za



Waters Core Chromatography Training (2 Days)

Course Description

The learning objective of this two-day course is to teach the user core chromatography, system and software fundamentals in an outcomes-based approach. The course focuses on practical exercises conducted on the instrument to reinforce topics covered from running samples through to reporting on Empower 3 Software.

Topics Covered

- Daily system startup and maintenance
- Software overview
- Applying methods to run samples
- Acquiring data
- Reviewing results
- Processing results
- Reporting

Who Should Attend?

This course is designed for laboratory personnel who are responsible for operating HPLC systems and require an enhancement/refreshment of their current HPLC skills.

Pre-requisites

None

Duration

2 Days

Details

Please refer to the last page for general information, and Core training registration form

[*Course Material only available in electronic format.](#)

Course dates will be confirmed upon receipt of order number



Empower - Data Acquisition, Processing and Reviewing (1 Day)

Course Description

This Course focuses on advanced Empower 3 Software acquisition and processing features, using the Pro interface to create methods, optimize integration, and process data

Topics Covered

- Creating acquisition methods
- Using the review window
- Developing a processing method
- Apex track detection and integration
- System suitability overview
- Altering sample information and batch/background processing
- Reviewing results and calibration curves
- Saving calibration curves, using an earlier calibration curve, recalculating results

Who Should Attend?

Experienced Empower 3 software users who want to customize the software to meet individual lab application needs.

**Course Material only available in electronic format.*

Course dates will be confirmed upon receipt of order number



Empower - Custom Fields and Reports (1 Day)

Course Description

This course focuses on advanced Empower 3 Software report publishing features, using the Pro interface to create custom fields, formulas and calculations.

Topics Covered

- Understanding custom fields
- Adding Sample identifiers using the keyboard or a selection from a list
- Adding component specific numerical information
- Calculations within and between peaks
- Boolean calculations with peaks
- Using text strings as the output for peak calculations
- Reporting fields only within specified limits
- Inter-sample and inter-sample summary calculations
- Customizing headers and footers with logos and special information
- Lining up information on the report page
- Finding information for the report
- Using Empower 3 software to generate reports for methods
- Using data filters
- Creating composite groups
- Summarizing statistical information
- Using overlay chromatograms and ordering tables
- Summarizing component information for all results in a result set
- Using composite groups to associate and order chromatograms and tables
- Summarizing component information for all results in a result set

Who Should Attend?

Experienced Empower 3 Software users who want to customize the software to meet individual lab application needs.

**Course Material only available in electronic format.*

Course dates will be confirmed upon receipt of order number



Empower - Admin Tools for Productivity (1 Day)

Course Description

This course provides attendees with the basic knowledge to administer Empower 3 in an Enterprise or Workgroup environment.

Topics Covered

- Networking fundamentals
- Enterprise architecture
- Administration tools
- User management
- Project management
- Configuring empower nodes
- Empower communication pathways
- Database backup

Who Should Attend?

System administrators in an Empower 3 Enterprise or Workgroup

[*Course Material only available in electronic format.](#)

Course dates will be confirmed upon receipt of order number



Using the PDA Detector with Empower™ Software (1 Day)

Course Description

Practical Use of the Waters PDA Detector and Empower 3 Software provides the fundamental information that you need to acquire and utilize PDA data with confidence using Empower 3 chromatography software. You will use Empower software with PDA data sets throughout the entire course. The instructor led segments and the practice exercises reinforce the skills needed for utilizing PDA detection for problem-solving.

Topics Covered

- PDA overview
- Guidelines for collecting 3-dimensional data with the PDA detector
- Reviewing PDA data
- Building a processing method
- Peak purity
- Creating a UV library and library matching
- Reporting PDA data

Who Should Attend?

Empower 3 software users who want to rapidly learn to utilize the capabilities of the Waters PDA detector for 3D analysis

Pre-requisites

The class attendee must be familiar with either the Empower QuickStart or Pro Interface. Knowing how to create a processing method with 2-dimensional chromatography data is helpful.

Duration

1 Day

**Course Material only available in electronic format.*

Course dates will be confirmed upon receipt of order number



Mass Spectrometry training (1 Week)

Course Description

This course guides the attendee through the fundamental principles of mass spectrometry as well as operational training of the Waters Xevo Mass spectrometry systems. Accurate mass and nominal mass spectrometry courses are available separately.

Topics Covered

- What is a mass spectrometer? Where do I use it?
- Components of a mass spectrometer
- Common ionization techniques
 - Electrospray ionization (ESI)
- The analyzer
 - Principles of quadrupole mass analyzer
 - Principles of TOF analysers
- Types of mass spectrometry methods available (e.g. SIR, FULL SCAN)
- The role of chromatography in MS
- Setting up the system
- GLP for LCMS
 - Solvents and Caveats
 - Ion suppression
 - Matrix effects
- Developing MS Methods
- Interpreting MS data
 - Calibration
 - Identification
 - Quantification

Who Should Attend?

This course is for anyone who is new to mass spectrometry or wants to build a strong foundation on mass spectrometry principles.

Duration

1 Week

[*Course Material only available in electronic format.](#)

Course dates will be confirmed upon receipt of order number

General Information: Terms and Conditions

Course Inclusions

- A Certificate of Attendance is given to each candidate on completion of the course.
- Waters Core Chromatography Courses are run with a small number of attendees for maximum effect

Hotel Accommodation

- Hotel accommodation and payment is your company's responsibility.
- Recommended local hotels: City Lodge Morningside or Town Lodge Grayston Drive.

Travel

- Travel arrangements should be made upon receipt of confirmation only.
- Microsep (Pty) Ltd is not responsible for reimbursement of non-refundable tickets because of class cancellation.
- Acceptance of the registration for this course indicates that Microsep (Pty) Ltd will not be held responsible for any inconvenience or losses incurred during the training or while travelling for this course.

Cancellation

Cancellations will incur the following charges:

- 10 Days Prior 20% of training cost
- 5 Days Prior 50% of training cost
- No show on day 100% of training cost

Microsep (Pty) Ltd reserves the right to cancel any course 10 business days prior to the course's start date.

Registration Form

Use the QR code to fill in the online registration form
or email the below registration form to:



Company: Microsep (Pty) Ltd

Attention: Waters Sales Secretary

Email: waters.salessecretary@microsep.co.za / apps.waters@microsep.co.za

Please indicate the course name that you would like to attend:

Company Details

Company Name:

Postal Address:

Postal Code:

Tel:

Email:

Delegate Details

First Name:

Surname:
