

# LC-LCMS BEST PRACTICES IN METHOD DEVELOPMENT/OPERATION AND TROUBLESHOOTING

9th - 13th  
JUNE 2025

## Who Should Attend

LC MS-MS is an instrument which has a wide scope in industries which manufactures or deals with Drugs, Dyes, Food and Dairy products, etc. The training is profitable for those individuals who are working to enter these industries.

## What You Will Learn

- An overview of LC -MS applications, including food, environmental, industrial, GPC, and biopharmaceutical analysis
- Concepts, perspectives, best practices, and potential issues surrounding UHPLC
- Fundamentals of LC-MS method development and easier approaches
- Overview of method validation and transfer
- Standard operating procedures for LC-MS modules, and troubleshooting strategies



Day 1	09-06-25	EVENTS
09:00 – 09.30 am	<b>Registration and Climate Setting</b>	
	<ul style="list-style-type: none"> <li>● Introduction to LC-MS and Principles of LC-MS</li> </ul>	
10.00 – 10.30 am	<b>TEA- BREAK</b>	
10.30 – 12.30 p.m	<ul style="list-style-type: none"> <li>● Theory of Single Quadrupole, Triple Quadrupole, System overview Ionization sources, detectors, Collision induced Dissociation, Solvents, buffers &amp; additives used in LC-MS</li> </ul>	
12-30 – 14.00 p.m	<b>LUNCH - BREAK</b>	
14.00 – 16.00 p.m	<ul style="list-style-type: none"> <li>● MS operation, including the operation of the most popular LC-MS interfaces</li> <li>● Operation in MS, MS/MS, and MS/MS/MS modes</li> </ul>	

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Day 2	10-06-25	EVENTS
9.00 – 10.30 am		<ul style="list-style-type: none"> <li>Tuning and Calibration, Product Ion Scan, MRM Method and HPLC Method</li> </ul>
10.30 – 11.00 am		<b>TEA- BREAK</b>
11.00 – 12.30 p.m		<ul style="list-style-type: none"> <li>Ion production, fragmentation, and detection</li> <li>MS calibration and optimization.</li> <li>Set up method for Full Scan and Single Ion Monitoring Operation</li> </ul>
12-30 – 14.00 p.m		<b>LUNCH - BREAK</b>
14.00 – 16.30 p.m		Creating method on Software and validating the method

Day 3	11-06-25	EVENTS
9.00 – 10.30 am		LC-MS Sample Preparation for Pesticide Analysis <ul style="list-style-type: none"> <li>Sample Preparation Techniques</li> <li>SPE, solvent extraction</li> <li>Quenchers Method</li> </ul> MSPD: Matrix Solid Phase Dispersion
10.30 – 11.00 am		<b>TEA- BREAK</b>
11.00 – 12.30 p.m		LC –MS Sample Preparation for analysis of Organic pollutants
12-30 – 14.00 p.m		<b>LUNCH - BREAK</b>
14.00 – 15.30 p.m		<ul style="list-style-type: none"> <li>Sample Preparation Techniques for Drug residue analysis</li> <li>SPE, solvent extraction</li> <li>Quenchers Method</li> <li>MSPD: Matrix Solid Phase Dispersion</li> </ul>

Day 4	12-06-25	EVENTS
9.00 – 10.30 am		<ul style="list-style-type: none"> <li>Creating sequence for multiple sample analysis of pesticide residue</li> <li>Developing calibration curve.</li> <li>Method optimizations and the validations of parameters such as LOD, LOQ, accuracy, precision, linearity and robustness in LC-MS-MS</li> </ul>
10.30 – 11.10 am		<b>TEA- BREAK</b>
11.00 – 12.30 p.m		<ul style="list-style-type: none"> <li>Sample analysis of Pesticide residue in Water samples, Quantitative analysis of Organic pollutants</li> </ul>
12-30 – 14.00 p.m		<b>LUNCH - BREAK</b>
14.00 – 15.30 p.m		<ul style="list-style-type: none"> <li>Quantitative data analysis with set files</li> <li>Quantitation using internal standards</li> </ul>

Day 5	13-06-25	EVENTS
9.00 – 10.30 am		Discussion of the results
10.30 – 11.10 am		<b>TEA- BREAK</b>
11.00 – 12.30 p.m		Maintenance and Troubleshooting – Effectively detecting, troubleshooting and rectifying common issues – Performing instrument maintenance Carrying out relevant diagnostic tests – Experience from hands-on laboratory exercises.
12-30 – 14.00 p.m		<b>LUNCH - BREAK</b>
14.00 – 15.00 p.m		Directors speech and issue of certificates

Deadline: 26th May 2025

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JUNE 2025

Cost Kes. 92,800.00  
or USD 928.00

NAIROBI

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