

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

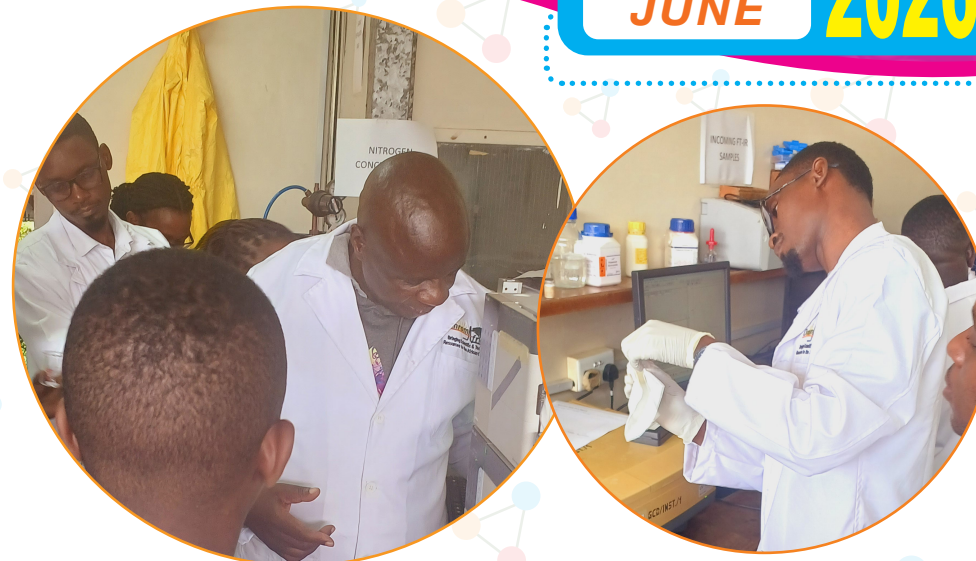
8th - 12th
JUNE 2026

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	08-06-26	EVENTS
09:00 – 09.30 am		Registration and Climate Setting
		• Introduction to LC-MS and Principles of LC-MS
10.00 – 10.30 am		TEA- BREAK
10.30 – 12.30 p.m		• Theory of Single Quadrupole, Triple Quadrupole, System overview Ionization sources, detectors, Collision induced Dissociation, Solvents, buffers & additives used in LC-MS
12-30 – 14.00 p.m		LUNCH - BREAK
14.00 – 16.00 p.m		• MS operation, including the operation of the most popular LC-MS interfaces • Operation in MS, MS/MS, and MS/MS/MS modes

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Day 2	09-06-26	EVENTS
9.00 – 10.30 am		<ul style="list-style-type: none"> Tuning and Calibration, Product Ion Scan, MRM Method and HPLC Method
10.30 – 11.00 am		TEA- BREAK
11.00 – 12.30 p.m		<ul style="list-style-type: none"> Ion production, fragmentation, and detection MS calibration and optimization. Set up method for Full Scan and Single Ion Monitoring Operation
12-30 – 14.00 p.m		LUNCH - BREAK
14.00 – 16.30 p.m		Creating method on Software and validating the method

Day 3	10-06-26	EVENTS
9.00 – 10.30 am		LC-MS Sample Preparation for Pesticide Analysis <ul style="list-style-type: none"> Sample Preparation Techniques SPE, solvent extraction Quenchers Method MSPD: Matrix Solid Phase Dispersion
10.30 – 11.00 am		TEA- BREAK
11.00 – 12.30 p.m		LC –MS Sample Preparation for analysis of Organic pollutants
12-30 – 14.00 p.m		LUNCH - BREAK
14.00 – 15.30 p.m		<ul style="list-style-type: none"> Sample Preparation Techniques for Drug residue analysis SPE, solvent extraction Quenchers Method MSPD: Matrix Solid Phase Dispersion

Day 4	11-06-26	EVENTS
9.00 – 10.30 am		<ul style="list-style-type: none"> Creating sequence for multiple sample analysis of pesticide residue Developing calibration curve. Method optimizations and the validations of parameters such as LOD, LOQ, accuracy, precision, linearity and robustness in LC-MS-MS
10.30 – 11.10 am		TEA- BREAK
11.00 – 12.30 p.m		<ul style="list-style-type: none"> Sample analysis of Pesticide residue in Water samples, Quantitative analysis of Organic pollutants
12-30 – 14.00 p.m		LUNCH - BREAK
14.00 – 15.30 p.m		<ul style="list-style-type: none"> Quantitative data analysis with set files Quantitation using internal standards

Day 5	12-06-26	EVENTS
9.00 – 10.30 am		Discussion of the results
10.30 – 11.10 am		TEA- BREAK
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		LUNCH - BREAK
14.00 – 15.00 p.m		Directors speech and issue of certificates

Deadline: 27th May 2026

8th - 12th JUNE 2026

Cost Kes. 125,000.00
or USD 1,200.00
exclusive of taxes

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