



Bringing Scientific and Technical Resources to the African Continents (NITA/TRN/875)

ADVANCES IN LC-MS CHROMATOGRAPHY PRACTICAL TRAINING

20th – 24th November 2023

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

<ul style="list-style-type: none"> • Registration and Climate setting 	DAY 1 (09.00-10.00)
Tea Break	10.00-10.30
<ul style="list-style-type: none"> • Introduction to LC-MS, Theory of Single Quadrupole, Triple Quadrupole, System overview & Ionization sources, detectors, Collision induced Dissociation, Solvents, buffers & additives used in LC-MS 	11.00-12.30
Lunch Break	12.30-14.00
<ul style="list-style-type: none"> • MS operation, including the operation of the most popular LC-MS interfaces • Operation in MS, MS/MS, and MS/MS/MS modes 	14.00 -16.30
<ul style="list-style-type: none"> • Tuning and Calibration, Product Ion Scan, MRM Method and HPLC Method. 	DAY 2 (9.00-10.30)
Tea Break	10.30-11.00
<ul style="list-style-type: none"> • Ion production, fragmentation, and detection • MS calibration and optimization. 	11.00-12.30
Lunch Break	12.30-14.00
<ul style="list-style-type: none"> • Creating method on Software and validating the method. 	14.00 - 16.30
<ul style="list-style-type: none"> • LC-MS Sample Preparation for Pesticide Analysis 	DAY 3 (9.00-10.30)

Tea Break		10.30-11.00
<ul style="list-style-type: none"> LC –MS Sample Preparation for analysis of Organic pollutants 		11.00-12.30
Lunch Break		12.30-14.00
<ul style="list-style-type: none"> Creating sequence for multiple sample analysis of pesticide residue 		14.00-15.30
<ul style="list-style-type: none"> Developing calibration curve. Method optimizations and the validations of parameters such as LOD, LOQ, accuracy, precision, linearity and robustness in LC-MS-MS 		DAY 4 (9.00-10.30)
Tea Break		10.30-11.00
<ul style="list-style-type: none"> Sample analysis of Pesticide residue in Water samples, Quantitative analysis of Organic pollutants 		11.00-12.30
Lunch Break		12.30-14.00
<ul style="list-style-type: none"> Quantitative data analysis with set files Quantitation using internal standards 		14.00-15.30
<ul style="list-style-type: none"> Discussion of the results 		DAY 5 (9.00-10.30)
Tea Break		10.30-11.00
<ul style="list-style-type: none"> Maintenance and Troubleshooting – Effectively detecting, troubleshooting and rectifying common issues – Performing instrument maintenance – Carrying out relevant diagnostic tests – Experience from hands-on laboratory exercises 		11.00-12.30
Lunch Break		12.30-14.00
Directors speech and issue of certificates		14.00 – 15.00
Dates: 20th – 24th November 2023 Deadline 9th November 2023	Cost Kes. 81,200.00 or USD 812.00	Nairobi

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