



Bringing Scientific & Technical
Resources to the African Continent

Chrom Africa Instrumentation Services Limited
Buruburu Business Complex Suite No.26, Mumias South Road,Nairobi.
P.O Box 4963-00100, Nairobi, Kenya.

SERVICE AND MAINTENANCE OF MOLECULAR/MICROBIOLOGY LABORATORY EQUIPMENT

22nd -26th APRIL 2024

Purpose

The purpose of this course is to provide a practical approach where participants will be trained in the practical concepts of service and maintenance of molecular and microbiology laboratory equipment. The course will include practical aspects (80%) and theoretical aspects (20%).

Who should attend

The course is aimed at laboratory technologists, people working in different industries who require knowledge on techniques for the maintenance and service of the various microbiology and or molecular laboratory equipment.

Course duration

The course will run over a period of five days.

DAY 1 (09.00-10.00)	<ul style="list-style-type: none">● Registration and Orientation● Laboratory safety
10.00-10.30	<i>Tea Break</i>
11.00-12.30	<ul style="list-style-type: none">● Overview of molecular and microbiology laboratory equipment such as the microscopes, PCR, weighing balances, vortexing equipment, hood, Autoclave, Centrifuge, refrigerators and freezers
12.30-14.00	<ul style="list-style-type: none">● <i>Lunch Break</i>
14.00 -16.30	<ul style="list-style-type: none">● Basic operations of the various molecular/microbiology laboratory equipment
DAY 2 (9.00-10.30)	<ul style="list-style-type: none">● General cleaning of the molecular/microbiology laboratory equipment● Chemicals/reagents/solvents used during cleaning of particular equipment
10.30-11.00	<i>Tea Break</i>

11.00-12.30	<ul style="list-style-type: none"> ● Identification of common problems associated with the PCR, microscopes and weighing machines and other equipment commonly used in such laboratories 	
12.30-14.00	<i>Lunch Break</i>	
14.00-16.30	<ul style="list-style-type: none"> ● Developing service and maintenance programs ● Laboratory equipment checklist 	
DAY 3 (9.00-10.30)	<ul style="list-style-type: none"> ● Calibration, and verification of the various microbiology and molecular laboratories equipment ● Discussions on calibration of laboratory equipment in relation data outcome and laboratory safety 	
10.30-11.00	<i>Tea Break</i>	
11.00-12.30	<ul style="list-style-type: none"> ● Interpretation and use of calibration certificates ● Troubleshooting of the various microbiology/molecular laboratory equipment 	
12.30-14.00	<i>Lunch Break</i>	
14.00-15.30	<ul style="list-style-type: none"> ● Used laboratory equipment and quality replacement 	
DAY 4 (9.00-10.30)	<ul style="list-style-type: none"> ● Various softwares used to process and visualize results using different equipment in the molecular laboratory 	
10.30-11.00	<i>Tea Break</i>	
11.00-12.30	<ul style="list-style-type: none"> ● <i>Continuation</i>; Softwares and the various applications 	
12.30-14.00	<i>Lunch Break</i>	
14.00-15.30	<ul style="list-style-type: none"> ● Various laboratory safety symbols and their interpretations ● Interpretations of various colors associated with laboratory safety 	
DAY 5 (9.00-10.30)	<ul style="list-style-type: none"> ● Maintenance and verification of equipment 	
10.30-11.00	<i>Tea Break</i>	
11.00-12.30	<ul style="list-style-type: none"> ● Recap on the course 	
12.30-14.00	<i>Lunch Break</i>	
14.00 – 15.00	<ul style="list-style-type: none"> ● Closing ceremony and issuance of certificates 	
Dates: 22nd – 26th April, 2024 Deadline: 12th April, 2024	Cost Kes. 92,800.00 or USD 928.00	NAIROBI