

# HPLC/UHPLC BEST PRACTICES IN METHOD DEVELOPMENT/OPERATIONS AND TROUBLE SHOOTING

9<sup>th</sup> - 13<sup>th</sup>  
**SEPTEMBER 2024**

Chrom Africa offers an outstanding platform for training on HPLC. This training program provides theoretical and practical understanding of HPLC, its maintenance, method development and troubleshooting techniques. All the information related to latest available HPLC components from pumps and detectors is provided. During the training, knowledge of selecting relevant instrumentation and columns, Detectors, Sample preparations, creating methods interpreting and troubleshooting the chromatograms is imparted. Hands-on aspect to enhance the practical operational experience is provided.



Day 1	09-09-24	EVENTS
9.00 – 9.30 am	<b>Registration and Climate Setting</b>	
9.30 – 10.00 am	<ul style="list-style-type: none"> <li>Introduction &amp; Instrumentation of HPLC, functions and operation HPLC components</li> </ul>	
10.00 – 10.30 am	<b>TEA- BREAK</b>	
10.30 – 12.30 p.m	<ul style="list-style-type: none"> <li>Introduction to basic principle of chromatography, various HPLC detectors with their uses, columns, binary and isocratic gradients, mobile phases, polarity and retention time</li> </ul>	
12.30 – 14.00 p.m	<b>LUNCH - BREAK</b>	
14.00 – 16.30 p.m	<ul style="list-style-type: none"> <li>Functioning of UV/VIS/DAD/RID detectors, its working, calibration and applications.</li> <li>Functioning of, Fluorescence detector functioning, its working, calibration and applications and other HPLC Detectors.</li> </ul>	



Day 2	10-09-24	EVENTS
9.00 – 10.30 am		<ul style="list-style-type: none"> <li>HPLC Columns selections and types of Columns.</li> <li>HPLC Columns installation procedure and care of columns</li> </ul>
10.30 – 11.10 am		<b>TEA- BREAK</b>
11.00 – 12.30 p.m		<ul style="list-style-type: none"> <li>Creating method on LC Software and validating the method. (Practical)</li> <li>Development of method, optimizing various chromatographic parameters</li> </ul>
12-30 – 14.00 p.m		<b>LUNCH - BREAK</b>
14.00 – 16.30 p.m		<ul style="list-style-type: none"> <li>LC Sample Preparation and clean up ( Practical's)</li> </ul>

Day 3	11-09-24	EVENTS
9.00 – 10.30 am		<ul style="list-style-type: none"> <li>Preparation of test solutions, Mobile Phase, Setup method for HPLC, Data acquisition software. (Practical)</li> </ul>
10.30 – 11.10 am		<b>TEA- BREAK</b>
11.00 – 12.30 p.m		<ul style="list-style-type: none"> <li>Creating sequence and multiple sample analysis (Practical)</li> <li>Developing calibration curve and producing report files. (Practical)</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>Sample Analysis ( Practical's)</li> </ul>

Day 4	12-09-24	EVENTS
9.00 – 10.30 am		<ul style="list-style-type: none"> <li>Quantitation software, Integration and Report Generation</li> </ul>
10.30 – 11.10 am		<b>TEA- BREAK</b>
11.00 – 12.30 p.m		<ul style="list-style-type: none"> <li>Quantitation software, Integration and Report Generation</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>Analysis of different types of water samples</li> </ul>



Day 4	13-09-24	EVENTS
9.00 – 10.30 am		<ul style="list-style-type: none"> <li>Quantitation using internal standards</li> <li>Understanding specific applications, preventive care, maintenance and trouble shooting. (Practical)</li> </ul>
10.30 – 11.00 am		<b>TEA- BREAK</b>
11.00 – 12.30 p.m		<ul style="list-style-type: none"> <li>Course overview</li> <li>Discussion of the results</li> </ul>
12-30 – 14.00 p.m		<b>LUNCH - BREAK</b>
14.00 – 15.00 p.m		<ul style="list-style-type: none"> <li>Directors speech and issue of certificates</li> </ul>

Deadline: 28<sup>th</sup> August 2024

9<sup>th</sup> – 13<sup>th</sup>  
SEPTEMBER 2024

Cost Kes. 92,800.00  
or USD 928.00

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