



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

**HANDS ON PRACTICAL TRAINING ON LIQUID CHROMATOGRAPHY (HPLC) 9<sup>th</sup> – 13<sup>th</sup> OCTOBER 2023**

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.

<ul style="list-style-type: none"> <li>Registration and Climate setting</li> </ul>	<b>DAY 1 (09.00-10.00)</b>
<i>Tea Break</i>	<i>10.00-10.30</i>
<ul style="list-style-type: none"> <li>Introduction &amp; Instrumentation of HPLC, functions and operation HPLC components.</li> <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>	<b>11.00-12.30</b>
<i>Lunch Break</i>	<i>12.30-02.00pm</i>
<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>	<b>2.00pm-4.30pm</b>
<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>	<b>DAY 2 (9.00-10.30)</b>
<i>Tea Break</i>	<i>10.30-11.00</i>
<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>	<b>11.00-12.30</b>
<i>Lunch Break</i>	<i>12.30-02.00pm</i>
<ul style="list-style-type: none"> <li>LC Sample Preparation and clean up (Practical's)</li> </ul>	<b>2.00pm-03.30</b>

<ul style="list-style-type: none"> <li>Preparation of test solutions, Mobile Phase, Setup method for HPLC, Data acquisition software. <b>(Practical)</b></li> </ul>	<b>DAY 3 (9.00-10.30)</b>
<b>Tea Break</b>	<b>10.30-11.00</b>
<ul style="list-style-type: none"> <li>Creating sequence and multiple sample analysis <b>(Practical)</b></li> <li>Developing calibration curve and producing report files. <b>(Practical)</b></li> </ul>	<b>11.00-12.30</b>
<b>Lunch Break</b>	<b>12.30-02.00</b>
<ul style="list-style-type: none"> <li>Sample Analysis (<b>Practical's</b>)</li> </ul>	<b>2.00pm-03.30pm</b>
<ul style="list-style-type: none"> <li>Quantitation software, Integration and Report Generation.</li> </ul>	<b>DAY 4 (9.00-10.30)</b>
<b>Tea Break</b>	<b>10.30-11.00</b>
<ul style="list-style-type: none"> <li>Quantitation using internal standards.</li> </ul>	<b>11.00-12.30</b>
<b>Lunch Break</b>	<b>12.30-02.00</b>
<ul style="list-style-type: none"> <li>Quantitation using internal standards.</li> </ul>	<b>2.00pm-3.30pm</b>
<ul style="list-style-type: none"> <li>Discussion of the results.</li> </ul>	<b>DAY 5 (9.00-10.30)</b>
<b>Tea Break</b>	<b>10.30-11.00</b>
<ul style="list-style-type: none"> <li>Understanding specific applications, preventive care, maintenance and troubleshooting. <b>(Practical)</b></li> </ul>	<b>11.00-12.30</b>
<b>Lunch Break</b>	<b>12.30-02.00</b>
<ul style="list-style-type: none"> <li>Directors speech and issue of certificates</li> </ul>	<b>02.00-3.00</b>
<b>Dates: 9<sup>th</sup> – 13<sup>th</sup> October 2023,</b> <b>Deadline 26<sup>th</sup> September 2023</b>	<b>Cost Kes. 81,200.00 or</b> <b>USD 812.00</b>
<b>Nairobi</b>	

**Benefits of the Training:** The training is beneficial to the persons who works in industries which relates to chemicals, oil, cosmetics, food, agriculture, analytical testing laboratories and several others.

It is the most important instrument used in drugs and pharmaceuticals thus training on HPLC will be a gateway to these industries.

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