



Bringing Scientific & Technical Resources to the African Continent

Chrom Africa Instrumentation Services Limited
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FORENSIC CHROMATOGRAPHY (FOCUS ON GC-FID FOR ETOH TESTING AND INTRODUCTION TO TOXICOLOGICAL SAMPLES

26th FEB – 1st MARCH 2024

Forensic Drug Analysis provides **hands-on experience** with the scientific techniques used to test drugs of abuse in their pre-consumption form. Forensic Analysis for Legal Professionals and Scientists will give you the knowledge and expertise you need. The essential element of the crime charged is that the seized unknown is in fact all illegal drug. For far too long, lawyers and scientist have accepted that the seized evidence is an illegal drug just because of one sentence in a crime lab report. You can change that paradigm with the knowledge you gain in this course.

DAY 1	EVENTS
09.00-09.30	Registration Course Overview and Welcome Remarks
09.30-10.00	Introduction to Gas Chromatography, Inlet Systems for Liquid Injections GC Theory, GC Resolution
10.00-10.30	<i>Tea Break</i>
11.00-12.30	Capillary Columns, Lab 2: Column Installation Quantitative Analysis, Method & Validation Introduction to Uncertainty Measurement
12.30-14.00	<i>Lunch Break</i>
14.00-16.30	Lab 3: GC Quantitation, Lab Review, Headspace GC Lab 4: Headspace Demo
DAY 2	
9.00-10.30	Introduction to GC/MS Labs 5-7: Wet Lab –Sample Preparation/ Integration / GC-MS Instrumentation
10.30-11.00	<i>Tea Break</i>
11.00-12.30	Discovery, Ethics, Pre-analytical Related Error, Live Demo: Sample prep from beginning to injection of a blood ethanol sample
12.30-14.00	<i>Lunch Break</i>
14.00-16.30	Lab 8: Walking Down a Case-How to Sort, Identify and Examine Data (Confrontation Clause) Developing Themes for Cases, Cross examination of an Analyst, Direct Examination of an Expert,
DAY 3	
9.00-10.30	Developing Themes for Cases Cross examination of an Analyst Direct Examination of an Expert
10.30-11.00	<i>Tea Break</i>
11.00-12.30	Introduction to Forensic Drug Chemistry Quality assurance/Quality control, Accreditation Requirements Anatomy of a Drug Case, Chain of custody, Evidence description, Weighing, sampling, and uncertainty, Drug analysis/qualitative analysis

12.30-14.00	<i>Lunch Break</i>	
14.00-16.30	Anatomy of a Drug Case confirmation testing, sample extraction for GC/MS	
DAY 4		
9.00-10.30	Anatomy of a Drug Case—Confirmatory Testing	
10.30-11.00	<i>Tea Break</i>	
11.00-12.30	Guided exercise: GC/MS data analysis (instructor provided data files) Lab exercise: GC/MS data analysis of case samples	
12.30-14.00	<i>Lunch Break</i>	
14.00-15.30	Anatomy of a Drug Case—Confirmatory Testing Lab exercise: FTIR analysis of samples	
DAY 5		
9.00-10.30	Modern Issues in Forensic Drug Chemistry, The wave of new drugs, Legislative control by chemical class Analog laws and prosecutions	
10.30-11.00	<i>Tea Break</i>	
11.00-12.30	Modern Issues in Forensic Drug Chemistry Live Demonstration of Cross-Exam of Cocaine Analyst	
12.30-14.00	<i>Lunch Break</i>	
14.00-15.00	Directors speech and issue of certificates	
DATES	COST	VENUE
26th Feb – 1st March 2024 Deadline: 13th February 2024	KES: 92,800.00 or USD 928.00	NAIROBI