

XRF/XRD/TXRF INSTRUMENTATION TRAINING

23rd - 27th
SEPTEMBER 2024

Who should attend?

The training is relevant to all staff in Soil testing laboratories, Geochemists, Forensic Scientists, Mining, Pharmaceutical Chemists, Petrochemicals, Nuclear Science, University researchers, Lecturers, Post graduate students, Testing Laboratories,

DI7: XRF /XRD/TXRF



Chrom Africa Instrumentation Services Limited
Buruburu Business Complex Suite No.26, Mumias South Road, Nairobi.
P.O Box 4963-00100, Nairobi, Kenya.
Phone number: (20) 2594918
Email info@chromafrica.co.ke | info@chromafrica.com
www.chromafrica.com www.chromafrica.co.ke

Day 1	23-09-24	EVENTS
8.00 – 10.00 am		Registration and Climate Setting
		<ul style="list-style-type: none"> Introduction to XRF Introduction to X-rays Excitation and characteristic radiation
10.00 – 10.30 am		TEA- BREAK
10.30 – 12.30 p.m		<ul style="list-style-type: none"> Instrumentation part one WDXRF, EDXRF, Detectors
12-30 – 14.00 p.m		LUNCH - BREAK
14.00 – 16.00 p.m		<ul style="list-style-type: none"> Sampling and specimen preparation Pressed powder pellets Sample preparation for metals and liquids Borate fusion technique

Day 2	24-09-24	EVENTS
9.00 – 10.30 am		<ul style="list-style-type: none"> Excitation of x-rays and tube spectra What's inside a WDXRF spectrometer
10.30 – 11.00 am		TEA- BREAK
11.00 – 12.30 p.m		<ul style="list-style-type: none"> What's inside an EDXRF spectrometer XRD application TXRF application
12.30 – 14.00 p.m		LUNCH - BREAK
14.00 – 16.30 p.m		<ul style="list-style-type: none"> Grinding – rotary swing mill Cryogenic mill Auto fusion electric fluxer Die briquetting apparatus Metal surface polishing apparatus and liquid sampling

Day 3	25-09-24	EVENTS
9.00 – 10.30 am		<ul style="list-style-type: none"> Instrumentation part 2 Dispersion Crystal fluorescence Pulse height analysis
10.30 – 11.00 am		TEA- BREAK
11.00 – 12.30 p.m		<ul style="list-style-type: none"> Introduction to qualitative analysis From intensities to concentration
12.30 – 14.00 p.m		LUNCH - BREAK
14.00 – 15.00 p.m		<ul style="list-style-type: none"> Accuracy and repeatability of measurements Method maintenance Quality control standards Monitors Quality control charts

Day 4	26-09-24	EVENTS
9.00 – 10.30 am		<ul style="list-style-type: none"> Introduction to matrix effects part one Matrix effects overview
10.30 – 11.10 am		TEA- BREAK
11.00 – 12.30 p.m		<ul style="list-style-type: none"> Mass absorption coefficients Calculation of mass attenuation coefficients
12.30 – 14.00 p.m		LUNCH - BREAK
14.00 – 15.00 p.m		<ul style="list-style-type: none"> Basic statistics for XRF users Statistical process chart Advantages and disadvantages of XRF/XRD/TXRF How to choose the right preparation method? Data interpretation from XRF/XRD/TXRF

Day 5	27-09-24	EVENTS
9.00 – 10.30 am		<ul style="list-style-type: none"> Matrix effects part 2 Infinite thickness Compton scattering, determination of MACs
10.30 – 11.10 am		TEA- BREAK
11.00 – 12.30 p.m		<ul style="list-style-type: none"> Using Compton peak intensity Selection of instrumental parameters Measuring standards Defining drift correction Getting the right intensities Calibration
12.30 – 14.00 p.m		LUNCH - BREAK
14.00 – 15.00 p.m		Directors speech and issue of certificates

Deadline: 11th September 2024

23rd – 27th
SEPTEMBER 2024

Cost Kes. 92,800.00
or USD 928.00

NAIROBI

Chrom Africa Instrumentation Services Limited

Buruburu Business Complex Suite No.26, Mumias South Road, Nairobi.

P.O Box 4963-00100, Nairobi, Kenya.

Phone number: (20) 2594918

Email info@chromafrica.co.ke | info@chromafrica.com www.chromafrica.com/

www.chromafrica.co.ke

