

HANDS ON PRACTICAL TRAINING ON ADVANCES IN ATOMIC ABSORPTION SPECTROSCOPY

10th - 14th
MARCH 2025

Course Overview

A comprehensive 5 days' course designed to increase expertise and optimize results for all users of AAS. Understanding sample introduction and optimization of instrument performance are important subject areas within this 5 days' course. Interactive Training sessions and practical exercises are used to reinforce key learning points.

Who is this course for?

The training is useful for those who are working industries like Oil Industries, Cosmetics, Chemicals, Food & Agriculture, Water Testing, Pharmaceuticals as well as the Analytical Testing Laboratories and various others.

What you will learn & Why

1. Why have calibration schedule
2. Why AAS is particularly suitable for Analysis
3. How AAS can be used for the analysis of ultra-trace metal elements (0.0005-1000ppm) Application of AAS to non-metallic elements (e.g. S, P)

Day 1	10-03-25	Activity
9.00 – 9.30 am		Registration and Climate Setting
9.30 – 10.00 am		<ul style="list-style-type: none"> Objectives of the training, expected outcomes and review of the agenda
10.00 – 10.30 am		TEA- BREAK
11.00 – 12.30 p.m		Introduction <ul style="list-style-type: none"> Principles of spectroscopy Principles & operation of AAS
12.30 – 14.00 p.m		LUNCH - BREAK
14.00 – 16.30 p.m		Laboratory session <ul style="list-style-type: none"> Learning components of AAS, i.e. Assembling the sample introduction system AAS gas requirements Consumables and spares Introduction to AAS technique, Basic Principle, its Applications and Uses in various fields



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Day 2	11-03-25	Activity
9.00 – 10.30 am		Sample preparation techniques <ul style="list-style-type: none"> Wet digestion Dry ashing Fusion
10.30 – 11.00 am		TEA- BREAK
11.00 – 12.30 p.m		<ul style="list-style-type: none"> Microwave assisted digestion
12.30 – 14.00 p.m		LUNCH - BREAK
14.00 – 16.30 p.m		Laboratory session <ul style="list-style-type: none"> Preparation of organic sample Preparation of inorganic samples Preparation of difficult samples Software basic and instrument set-up

Day 3	12-03-25	Activity
9.00 – 10.30 am		Calibration methods <ul style="list-style-type: none"> Calibration curve, Use of quality controls
10.30 – 11.00 am		TEA- BREAK
11.00 – 12.30 p.m		<ul style="list-style-type: none"> Internal QCs – spiking, HRM, replicate testing External QCs – CRM, PTs, ILC
12.30 – 14.00 p.m		LUNCH - BREAK
14.00 – 15.30 p.m		Laboratory session <ul style="list-style-type: none"> Preparation of standards Preparation of QCs Method development Sample analysis using AAS Introduction and Hands-on practice on preparation of different types of samples for determination of heavy metals

Day 4	13-03-25	Activity
9.00 – 10.30 am		<ul style="list-style-type: none"> Hands-on practice on preparation of different types of samples for determination of heavy metals Analysis of different types of food samples
10.30 – 11.00 am		TEA- BREAK
11.00 – 12.30 p.m		Laboratory session <ul style="list-style-type: none"> Analysis of different types of food samples
12.30 – 14.00 p.m		LUNCH - BREAK
14.00 – 15.30 p.m		<ul style="list-style-type: none"> Analysis of different types of water samples

Day 5	14-03-25	Activity
9.00 – 10.30 am		<ul style="list-style-type: none"> Analysis of data & uncertainty measurements Maintenance of AAS and Trouble-shooting covering all the possible problems
10.30 – 11.00 am		TEA- BREAK
11.00 – 12.30 p.m		<ul style="list-style-type: none"> Course overview Conclusion
12.30 – 14.00 p.m		LUNCH - BREAK
14.00 – 16.30 p.m		Directors speech and issue of certificates

**Cost Kes. 92,800.00 or
USD 928.00 Per Person**

NAIROBI

Deadline: 1st March 2025

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