

CURRICULUM VITAE

PERSONAL DETAILS

Name : **LAWRENCE ALOO**
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Languages : English, Kiswahili and Dholuo (Fluently spoken and written)
Nationality : Kenyan

ACADEMIC PROFILE

Date	Institution	Certificate
2014-Date	University Of Nairobi	M.Sc. in Analytical Chemistry
1990-1995	Moi University, Eldoret	B.Sc. in Chemistry
1986-1989	Kisumu Boys High School	KCSE Examinations Passed
1978-1985	Kanyamedha Primary School, Kisumu	KCPE Examinations Passed

WORK AND PROFESSIONAL EXPERIENCE

Date	Place of Work	Responsibilities and Achievements
2012-Date	Ministry of Health	Senior Medical Biochemist at National Public Health Laboratory.

Team Leader- Mycotoxins Laboratory Representing lab. in different stakeholders fora

- Coordinating/Carrying out identification, characterization and quantification of mycotoxins in cereals, pulses, nuts, peanut butter, spices etc using Enzyme Linked Immunosorbent Assay (ELISA), fluorometry, High Performance Liquid Chromatography (HPLC).
- Developing Standard Operating Procedures (SOPs), evaluation of reagents and equipments to be procured. Collection, handling and interpretation of data. Ensuring logistics, documentation, methodologies of lab. are up to date.
- Implement laboratory management system. Use **LIMS** to report and review test results. Analysis of results, including statements of conformity. Develop, modify, verify and validate methods. Determine measurement uncertainties for analytical methods

Deputy Quality Assurance Manager, Food Safety & Nutrition Reference Laboratory

- Ensuring laboratory Quality Management System is implemented
- Ensures staff performs assigned tasks
- Preparing calibration, staff training, competency assessment schedules
- Plan implementation of audits, coordinate corrective action, ensuring participation in relevant Proficiency Testing schemes
- Reviewing drafts of new and revised Standard Operating Procedures
- Keeps custody of controlled documents and maintaining their inventory

Mycotoxins Quality Assurance Officer -actively took part in Ministry of Health ISO 9001-2008 Certification and currently in ISO 9001-2015

- Actively taking part steering Food Safety and Nutrition Unit's ISO 17025 accreditation process.

Others Analysis of food and food products for compliance with standards or label claims; contaminants like Mycotoxins like aflatoxins

- Food Additives analysis: preservatives (like benzoic acid, sorbic acid), food colours, caffeine etc.
- Regular monitoring and evaluation of instituted on-going programmes like Micronutrient Deficiency Disorders and other Nutritional programmes
- Formulation and reviewing of Regional/National Standards in conjunction with stakeholders.
- Training and supervision of students from various institutions of higher learning including universities in respective areas of specialization.
- Participation in COMESA, EAC, FAPAS Proficiency Testing Schemes.

2012 Excel Inks Ltd **Consultant** in printing inks, paste, resins and metal decorations, industrial solvents and chemicals

2012 Ciandci chemicals Ltd., **Consultant** in printing ink, adhesives, resins and industrials manufacturing , industrial solvents and chemicals

2012 Laser Inks Ltd., **Consultant** in printing inks, adhesives, resins and industrials manufacturing, industrial solvents and chemicals

2003 Chemsols Limited **Consultant** Adhesives, resins and printing ink manufacturing and Quality management system setting up

2003 - 2012 Coates Brothers (E.A) Ltd. **Technical /Quality Assurance Manager**

- Ensuring inks to customers meet specifications and raw material, intermediates and additives go through milling, grinding, blending and filling.
- Research and development of formulations/products/projects
- Carrying out specialized tests on resins, pigments, solvents, petroleum products, varnishes and additives.
- Carrying out colour matching in the shortest time possible
- Putting preventive measures in place regarding creation of excess / dead stocks. Preparing recipe and quality specification cards.
- Training new technical staff in the department. Supervising housekeeping.
- Trouble shooting, technical service of flexographic (Flexo) and gravure customers during technical visits.
- Looking for orders, placing orders (verbally, email, fax etc.)
- Working out production, stock flow, man-hour utilization and customer complaints data analysis and reporting them to departmental meetings.
- Carrying out training and auditing of staff on ISO 9001 -2008 conformance and Health, Safety, Security and Environment.

Achievements Most improved quality production, technical service, sales, reducing dead stocks by 70%

- ISO 9001-2008 Coates Brothers Recertification (2010)
- Most improved safety health and environment standards
- Reduced customer complaints, order turnaround time to 1 day

Trained quality assurance chemists and production staff

Acquired Skills in Quality Assurance, Research and Development, Technical Service / Sales Production, Management, Raw Material Testing ISO Quality Management and Safety, Supervision, team work.

2002 – 2003 Princeton Laureate Academy **Senior Teacher**

- Teaching of Chemistry and Mathematics in ‘O’/ and ‘A’ level

Achievements Best ‘A’ level chemistry IGCSE results (2003)

2002 ASHUT Plastic **Quality Assurance Chemist**

- Analyzing, testing and standardizing of raw materials and products (extrusion, blow and injection moulding).

Achievements Set up a conventional Quality assurance system

2002 Syner Chemie **Quality Assurance Chemist / Salesman**

- Medicinal drugs, Agroveter, industrial Chemicals. Maintaining qualities of the chemicals
- Maintaining standards and qualities of the chemicals
Selling the products to chemical companies

Achievements Opened new sales frontiers in Kiambu and Thika towns.

Acquired skills in sales, quality assurance.

1995 – 2001 Parkview Academy **Teacher**

- Teaching Chemistry and Maths up to ‘A’ level in GCE, and 8 .4.4. System.
- Counselling and guiding students (class teacher)
- Chairman of the staff co-operative society, patron of the science club, House master (sports)

Achievements 2001 Chemistry –GCE best results,
2000 Maths best results,
1999 Most improved Chemistry and Maths results

2001, 1998 & 1997 Muslim Girls, Oswal High School and Agha Khan Academy Invigilator GCE Examinations

1999 Arya Boys Secondary School **Supervisor of Invigilation** GCE examinations

Acquired skills in supervision and teamwork

1999 Kenya Bureau of Statistics (KBS) **Enumerator** during National census at Eastleigh

Acquired skills in data collection, compilation and interviewing

1997 Electoral Commission Kenya **Polling Officer** Eastleigh Airport School

OTHER SKILLS ACQUIRED

DATE **PLACE**

2019 May Kenyatta University

SKILLS

International Food Safety Conference.

Theme – “Food and Nutrition Safety from Farm to fork: a missing link in consumer health and food security”

Exhibited on behalf of National Public Health Laboratory

2018 Dec Burch Hotel Naivasha Quality Management System Document Review For NPHL

Reviewed The Food Safety and Nutrition Unit ISO 17025:2017 Documents

2018 May NPHL Boardroom

ISO 17025:2017 SOPs Development

Trained by mentors on development of ISO 17025:2017 Standard Operating Procedures (SOPs). Developed SOPs.

- 2018 May Trademark Hotel NFSCC – MANCP Sub-Committee meeting
Participated in discussions to prepare guidelines that promote coherent national strategies, and identifying risk-based priorities and the most effective National food control and food safety procedures on multi sectoral level
- 2018 Mar Jacaranda Hotel Nairobi USAID Regional Laboratory Business Plan Training Workshop
Acquired skills in Business Plan writing, internal environmental analysis, market analysis, external (PESTEL) analysis, SWOT and stakeholder analysis, critical success factors, strategic framework, production/operations plan, marketing plan, human resource plan, costing & pricing, risk & risk management, plan implementation and monitoring & evaluation
- 2017 Dec Jacaranda Hotel Nairobi USAID Training Workshop on the Development of National Residue Control Plans
Acquired skills in Policy consideration in Development of Residue Monitoring Plan, foodborne pathogens, chemical hazards in food, hazard residues with control system, non-compliance consequences, residue monitoring and control plans. Others- Residues and trade, monitoring and control plans implementation, challenges of implementation.
- Identified focus areas for Kenya, health problems of food-related risks
 knowledge gaps knowledge gaps, potential impact on the health of various value chains function official controls (inspections versus controls)
- 2017 Nov Jacaranda Hotel Nairobi USAID Regional (EAC) Training Workshop on the Development of National Residue control plans
Acquired skills on impact of food on health, determination of inspection frequency, programming of official controls, risk analysis and MRLS, risk ranking, microbiological criteria, EU requirement for residue monitoring
- 2017 Sept JKUAT Royal Society of Chemistry LC –MS A Hands on approach training
Acquired skills in liquid chromatography, HPLC method development, columns & stationary phase chemistry, mass spectrometry (LC/MS), sample preparation techniques, sample considerations for targeted analysis-caffeine, paracetamol. LC/MS system optimization, cleanup, trouble shooting, LC & MS maintenance
- 2017 Aug NPHL Nairobi AIHA Internal Audit training based on ISO 17025:2005
Acquired skills in ISO 19011:2011 Management system auditing standard Quality audit, types of audit, Principles/ fundamentals of auditing, qualifications of quality auditors. The audit process, preparation and planning, performance, reporting, follow-up and closure, root cause analysis

- 2017 July Astorian Grand Hotel Naivasha Global Fund. Amref Health Africa Workshop: Drafting Standard Operating Procedures (SOPS) for the Final Draft of the National Quality Manual for Medical Laboratories In Kenya
Acquired skills in Quality System Essentials of ISO 15189, drafting of ISO 15189 SOPs, Quality Manual
- 2017 June Eka Hotel, Nairobi Vision Scientific Seminar on grinding and dispersion, particle characterization and colour measurement solutions for paint and ink industry. Food Rheology
Acquired skills in different grinding and dispersion methods, particle characterization and colour measurement solutions for paint surface coating and ink industry. Food Rheology process methods and testing
- 2017 May White Rhino Hotel Nyeri AIHA ISO 17025 SOP, QA Manual Training
Participated in drafting of NPHL Calibration Centre of Excellence (COE) ISO 17025 SOPs and Quality Manual
Acquired skills in ISO 17025, drafting of ISO 17025 SOPs, Quality Manual
- 2017-May KEBS Nairobi COMESA: Evaluation Workshop: 5th Round aflatoxin PT scheme and technical training on sample preparation
**Acquired skills in sample preparation, Homogeneity and Stability
Hands on Practical Training determination of aflatoxin in Maize through sample preparation, extraction, purification, concentration using RP HPLC with Fluorescence detector
Grinding of Maize and other cereals using Romer Mill**
- 2017 Mar Silver Springs/NPHL COE BD NPHL- Calibration Centre of Excellence (COE)
Training on ISO 17025, drafting of SOPs, Quality Manual. Equipments calibration
Acquired skills in ISO 17025 implementation, drafting of ISO 17025 Quality Manual and SOPs and Calibration of equipments
- 2017 Feb Masada Hotel Naivasha University of Maryland (UMB) NPHL Annual Work Plan
Develop Annual Work Plan (AWP) for National Public Health Laboratory
Acquired skills in Annual Work Plan development by use of policies, strategic plans etc
- 2016 Jul Eka Hotel Bruker East African Seminar Tour 2016
Acquired skills in mass spectrometry solutions for protecting human health, food safety and forensic drug screening and quantitation
- 2016 May NCPB **Country Coordinator** -COMESA common field sampling by Kenyan labs (Government chemist, NPHL, KEBS, KU).
Acquired skills in coordination, supervisory, teamwork, correspondence, hands on sampling from conventional stores by use of Maize COMESA draft sampling protocol
- 2016 Apr Hilton Hotel COMESA: Evaluation Workshop: 3rd round aflatoxin PT scheme and technical training on method validation.
Acquired skills in essential statistics, interpretation of results, precision, bias, linearity

2015 Oct 680 Hotel

Helica Bio systems Training

Acquired skills in hands on Helica ELISA testing method, toxicity of mycotoxins, diseases caused by mycotoxins, comparative mycotoxin testing methods, competitive inhibition enzyme immunoassay

2015 Sep University of Nairobi FAO/NFSCC Training for Laboratory Analysts on Aflatoxin Management (Kabete Campus)

Acquired skills fluorometry mycotoxin protocol, Near Infra Red spectroscopy (NIRS) Hands on Mycotoxin Analysis Using, ELISA (Neogen, Veratox, Helica, Ridascreeen) HPLC. Maize grading, HACCP, GLP, GMP, GAP

2015 Aug Uganda National Bureau of Standards/ Imperial Royale Hotel Kampala

Comesa proficiency Testing Scheme and Co-Regulatory Framework for a Aflatoxin control and **ISO 17025** internal audit training

Awarded a **Certificate in Internal Auditor ISO17025** after training and examined

Acquired skills in

- **ISO 17025/Internal Audit hands on at Uganda National Bureau of Standards.**
- **Training on impact of un-harmonized aflatoxin regulations on trade, EAC Standards and grading, SOP for sampling, SOP for Maize grading.**
- **Field visit aggregator/deports- APONYE produce-gained firsthand experience on sorting, grading and milling.**
- **Regulator perspectives, industry perspectives, co-regulation. Appreciated the strengths and weaknesses in labs across the region.**

2014 Sep Hilton Hotel

COMESA Regional Workshop on Proficiency Testing for Aflatoxin Analysis laboratories.

Acquired skills in

- **Role of Laboratories in food control, Equivalence and mutual recognition of analytical resources- Sanitary and phytosanitary measure (SPS Agreement)**
- **Proficiency Testing and other external quality assurance programs (internal and external)**
- **Analysis FAPAS Proficiency Test Report for Ochratoxin A in Wheat Flour**

2013 Tea Tot Hotel Machakos MSH-Biosafety and Bio security Training

Acquired skills in

- **WHO AFRO Laboratory program, quality management systems and safety, biosafety and bio security policy,**
- **Occupational health and preventative services, donning and doffing of PPEs, Infection prevention and control, spill clean management, safety equipments, waste management.**

2007 EAPI Health, Safety, Security and Environment Training (HSSE)

Acquired skills on the best practices in a work place especially in a manufacturing set - up following ISO 14001 procedures.

2001 Wantech Computer Studied and awarded certificate in information technology
College **Trained** in Ms Word, Access, Excel, and Pagemaker, SAP
Business, Informix among others

SKILLS, EXPERIENCE AND PERSONAL ATTRIBUTES

Communication skills: My diverse range of experiences at university, work and extracurricular activities has enabled me to acquire strong verbal and written communication skills. As an outgoing person I have also had numerous opportunities to develop my interpersonal skills to a high level as evidenced by my easy interaction with both colleagues and clients.

Selling (technical) skills: I have been responsible for identifying new opportunities and developing strategies to turn these into reality. Technical knowledge has ensured clients get right technical service when needed.

Ability to manage multiple tasks I have been tasked to work towards numerous and competing deadlines. Through careful organisational skills, planning and some delegation I have been successful in fulfilling all lab. Sales, quality and production deadlines. Taking a team approach where I manage the group's activities as well as actively participating in completing the work and get best possible result.

Attention to detail : Attention to detail and excellent numerical skills is/was an essential performance criterion in my role at Ministry of Health/Coates Brothers. I deliver quality efficiency monitoring data which informs the trend of business/surveillance/monitoring and how to improve.

Ability to develop new products My experience has provided me with up to date knowledge where I can design and implement a new product for a client depending on specifications.

Highly motivated: I have achieved significant cost savings and efficiency improvements especially at Coates Brothers by reducing/using away dead stocks by 70%.

Energetic : I am a person who is always on the go as I am involved in a number of activities. I am an outgoing person and enjoy being an active member of numerous clubs and associations.

FIELD EXPERIENCE (ATTACHMENT)

I have undertaken field service and attachment to enhance my skills and competence further.

Jomo Kenyatta University of Agriculture and Technology	Juja
Kenya Bureau of Standards	Nairobi
Uganda National Bureau of Standards	Kampala, Uganda
Aponye Produce	Kampala, Uganda
Olkaria Geothermal Station	Naivasha
East African Portland cement	Athi River
Rift Valley Bottlers & Raymond mills	Eldoret
Pan Paper Mills	Webuye
Kenya Matches, Kicomi & Foam Mattress	Kisumu
Kenya Litho, Dilpack, paper bags, Colour labels	Nairobi
Printpak, General Printers, Elgon Kenya	Nairobi
Color packaging, Statpack, Kartasi	Nairobi
East African Packaging, Synresins, G.N.&Co	Nairobi

Kenya Bureau of Standards, National Oil
Nampak, Bullpak
Label Converters, Cosmos Pharm and Lab & Allied

Nairobi
Thika
Nairobi

COMPUTER LITERACY

I have trained and have a working knowledge of basic programming, Ms Dos, Ms Word, Ms Excel, Access Pagemaker, Informix, Outlook, explorer, internet and SAP Business up to degree level.

MEMBERSHIP

Professional Group	-	Royal Society of Chemistry (RSC) Membership No. 645839	
		Professional Chemists	- Global
	-	Freelance Testers	- Global
	-	Quality Assurance Forum (QA)	- Global
	-	Analytical Group	- Global
Volunteer Work		-Class Representative, PTA Member	St.Mary's School Yala
		-Young Professional Group	-Blessed Sacrament Church

HOBBIES

Enlightening people on Food safety measure, environment conservation, reading anything informative, travelling, wildlife excursions and playing / watching soccer.

FUTURE PROSPECTS

To explore my abilities in a more challenging, and demanding environment

REFEREES

Nancy Njine,
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