

PERSONAL INFORMATION

Anderson Maina



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Nationality KENYAN

WORK EXPERIENCE

April 2009 to Present

Metrologist

Kenya Bureau of Standards – Popo Rd, Nairobi, Kenya

- Maintaining the national acoustics and vibration reference standards.
- Ensuring traceability of acoustics and vibration reference standards.
- Maintaining the laboratory quality management system in conformance with ISO/IEC 17025.
- Performing calibration and verification of acoustics and vibration measurement equipment.
- Organising and taking part in knowledge transfer and capacity building programmes at local and regional level.

EDUCATION

October 2002 to July 2006

Bachelor of Science Physics (Electronics Option)

University of Nairobi – Chiromo Campus, Nairobi, Kenya

4 year advanced degree consisting of 42 units and requiring a minimum of 36 pass.

TRAINING

July 2019

ISO/IEC 17025:2017

Physikalisch-Technische Bundesanstalt (PTB) International Cooperation Workshop – Kigali, Rwanda

- General requirements of ISO/IEC 17025:2017
- Impartiality and Confidentiality
- Structural requirements
- Resource requirements
- Process requirements
- Management requirements
- Introductions to concepts of measurement uncertainty and decision rule
- Cross reference and gap analysis assignments
- Development of an analysis tool for risks and opportunities

May 2019

Uncertainty of measurement course

National Metrology Institute of South Africa (NMISA) – Mombasa, Kenya

- Concepts and methodology of uncertainty of measurement
- Analysis of the basic contributors to uncertainty of measurement
- Estimating the uncertainty of measurement
- Evaluate and record the uncertainty of measurement

Jan 2018

Information Security Management Systems Implementation Course

National Quality Institute (NQI, KEBS) – Nairobi, Kenya

- Introduction to Information Security and Information Security management standards
- Requirements of ISO/IEC 27001 for organisations
- Development a Risk Assessment Process based on 27001

- Selection and Creation of control objectives and controls

July 2016 **GMA Individual Course Acoustics Calibration**

Korea Research Institute of Standards and Science (KRISS) – Daejeon, Republic of Korea

- Insert voltage measurement technique (Acoustics)

December 2015 **Occupational/Environmental Noise and Human Vibration Course**

BRÜEL & KJÆR – Mombasa, Kenya

- Sound level and sound analysis
- Occupational/Environmental noise legislation
- Measurement of occupational and environmental noise
- Human vibration fundamentals, legislation and practice
- Measurement of human vibration

January 2015 **Foundation calibration course**

Kenya Bureau of Standards (KEBS) – Nairobi, Kenya

- Fundamentals of metrology
- Fundamentals of electrical measurements
- Fundamentals of pressure measurements
- Fundamentals of radiation dosimetry measurements and Non-Destructive Testing
- Fundamentals of mass measurements
- Fundamentals of dimensional measurements
- Fundamentals of time and frequency measurements
- Fundamentals of volume and flow measurements
- Introduction to uncertainty of measurement
- Introduction to chemical metrology
- Fundamentals of photometry
- Fundamentals of temperature measurements

June 2014 **Pulse Visual Basic for Automation**

BRÜEL & KJÆR - Nærum, Denmark

Fundamentals of Visual Basic® for Automation (VBA) programming, and measurement tasks in PULSE LabShop

April 2012 **Insert voltage calibration**

National Metrology Institute of South Africa (NMISA) – Pretoria, South Africa

Practical course on the Insert voltage calibration of microphones and laboratory reference sound calibrators

May 2011 **High level calibration principles in acoustics**

National Metrology Institute of South Africa (NMISA) – Pretoria, South Africa

Highest level calibration principles in acoustics

September 2010 **ISO/IEC 17025 Assessor**

Kenya National Accreditation Services – National Quality Institute, Nairobi, Kenya

Course in the requirements of the ISO/IEC 17025 standard for laboratories, assessment methods and principles.

December 2009 **SIM Metrology School**

Instituto Nacional de Metrologia, Qualidade e Tecnologia (INMETRO) – Petropolis, Brazil

- A beginners course in general metrology

November 2009 **Principles of Acoustics and Vibration Metrology**

National Metrology Institute of South Africa (NMISA) in conjunction with the National Laboratory Association of South Africa (NLA) – CSIR, Pretoria, South Africa

- Acoustics, Vibration and low frequency DC measurement techniques.
- Uncertainty of Measurement according to The Guide to the expression of uncertainty in measurement (GUM).

November 2009 **Uncertainty of measurement course**

CMeTSA, National Laboratory Association of South Africa (NLA) – CSIR, Pretoria, South Africa

- Determination and computation of uncertainty in physical measurements

November 2009 **Electrical level 1 Course**

CMeTSA, National Laboratory Association of South Africa (NLA) – CSIR, Pretoria, South Africa

- Calibration of low frequency AC and DC measuring meters

April – August 2009 **On the job training**

Kenya Bureau of Standards (KEBS) – Nairobi, Kenya

- Principles of metrology
- Acoustics and vibration metrology
- Duties and responsibilities of a metrologist

PERSONAL SKILLS

Languages

- Good command of English.
English is the official language of instruction in Kenya which is a former British colony.
- Good command of Kiswahili.
Kiswahili is an official language in East Africa, working language of the African Union and a lingua franca of East and Central Africa spoken by over 100 million people.

Communication skills

Good communication skills gained through my experience as a physics and mathematics teacher.

Organisational skills

Good organisational skills gained through planning capacity building activities for Kenyan industry.

Digital competence

Good command of MS Word, Excel and PowerPoint software with an International Computer Driving Licence (ICDL) Certificate.

ADDITIONAL INFORMATION

Publications

- Maina A, Veldman C. 2014. Final report on the supplementary comparison AFRIMETS.AUV.V-S3. Metrologia, volume 51, Technical Supplement.
- R Nel, S Barrera-Figueroa, D Dobrowolska, Z M Defilippo Soares, A K Maina and C Hof. 2015. Final report of supplementary comparison AFRIMETS.AUV.A-S1. Metrologia, Volume 53, Technical Supplement.

Presentations

- Acoustics and Vibration at KEBS - 9th Meeting of the CCAUV BIPM Sèvres France.
- Acoustics and Vibration measurements for sustainable development; 7th Regional Metrology Conference – 3rd to 5th December 2014 Nyali International Beach Hotel Mombasa, Kenya.
- Principles of Acoustics and Vibration Calibration; Workshop on non-destructive testing and calibration services – 14th May 2015 Kisumu Hotel Kisumu, Kenya.

Professional Memberships

National Quality Institute
Physics Society of Kenya

Conferences/Meetings

- Represented the Kenya Bureau of Standards at the 8th, 9th and 10th meetings of the Consultative Committee of Acoustics Ultrasound and Vibration in Paris, France.
- Represented the Kenya bureau of Standards at the 2nd, 3rd and 4th meetings of the AFRIMETS Technical committee of Acoustics Ultrasound and Vibration as vice chair.

References

Mr. Samuel Gacheru
Manager Electrical Metrology
Kenya Bureau of Standards
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Mr. Dominic Ondoro
Manager Mechanical Metrology
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