

# Training for Food Safety Testing in the AfCFTA

Reliable Food Safety Testing supported by a sound chemical metrology skill and infrastructure.

We are pleased to offer a comprehensive on-line training course on Food Analysis aimed at supporting the development of reliable Food Safety Testing within the region.

## PROGRAMME OVERVIEW

Capacity building for each food hazard: pesticide, heavy metal, and veterinary drugs takes place in 2 parts:

- Part 1 deals with preparation of the calibration solution and establishing metrological traceability to meet ISO/IEC 17025 requirements.
- Part 2 deals with the determination of the contaminant in a complex food matrix (fruit, fish, chicken), where aspects of method validation and quantification are dealt with for different institution levels (NMI, developing NMI/DI, testing lab).

Each part is presented in the order:

- Virtual training of the concepts
- Practical application of theoretical concepts learned through sample analysis.
- Feedback workshop on analysis performance and improvements

## METHODOLOGY

The training will be a mix of on-line lectures, customised proficiency tests and workshops where participants will also engage in interactive discussions and hands-on exercises designed to reinforce the theoretical concepts covered.

**Limited space available,  
maximum of fifteen  
participants - register now!**

**JOIN OUR FOOD SAFETY  
TESTING JOURNEY**

**How to ensure the quality of  
your analysis.**

**April 2023 - February 2024**

**An informative workshop  
aimed at all National Metrology  
Institutes (NMIs), designated  
institutes (DIs) and Food  
Testing Laboratories in the  
Africa Continental Free Trade  
Area.**



The AFRIMETS initiative is supported by



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Opening the doors to Africa and beyond**

# COURSE PROGRAMME April 2023 – February 2024

PARAMETER	ACTIVITY	ESTABLISHED NMIS	DEVELOPING LABS	DATES	COST (EURO)
<b>COURSE 1: PESTICIDES</b>	Virtual training 1: Preparation of organic solution (pesticide)	Value assignment of solutions	Transfer of metrological traceability from CRM to working standard in laboratory	April – June 2023	€ 1 765
	<b>Practical assessment 1:</b> Prepare and value assign the solution				
	Virtual workshop 1: Pesticide in organic solvent	dIDMS technique	External calibration		
	Virtual training 2: Determination of pesticide in fruit matrix				
	<b>Practical assessment 2:</b> Determination of pesticide in fruit matrix.				
Virtual workshop 2: Pesticide in fruit					
<b>COURSE 2: ELEMENTS, HEAVY METALS</b>	Virtual training 3: Preparation of inorganic elements in aqueous solution	Value assignment of solutions	Transfer of metrological traceability from CRM to working standard in laboratory	September- November 2023	€ 1 765
	<b>Practical assessment 3:</b> Prepare and value assign the solution				
	Virtual workshop 3: Elements in solution	dIDMS technique	Standard addition/ IDMS		
	Virtual training 4: Determination of elements in seafood matrix				
	<b>Practical assessment 4:</b> Determination of elements in seafood matrix				
Virtual workshop 4: Elements in seafood matrix					
<b>COURSE 3: VETERINARY DRUGS</b>	Virtual training 5: Preparation of organic salt solution (vet drug)	Value assignment of solutions	Transfer of metrological traceability from CRM to working standard in laboratory	December – February 2024	€ 1 765
	<b>Practical assessment 5:</b> Prepare and value assign the solution				
	Virtual workshop 5: Veterinary drug salt in solvent	dIDMS technique, matrix-matching	External calibration, IDMS, matrix-matched calibration		
	Virtual training 6: Determination of veterinary drug in meat				
	<b>Practical assessment 6:</b> Determination of veterinary drug in meat				
Virtual workshop 6: Determination of veterinary drug in meat					

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## REGISTRATION REQUIREMENTS:

Language of learning: English

Skills level: All levels are accommodated.

Duration: 4 days plus 2 practical assessment per parameter:  
Pesticides, heavy metals and veterinary drug residues

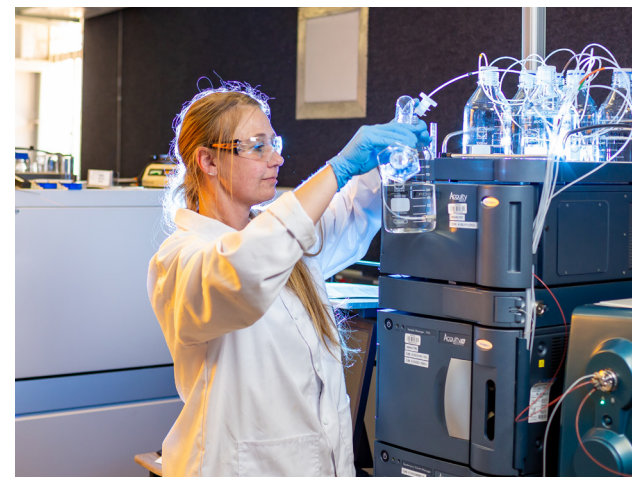
Delivery: On-line through NMISA Training Centre

## SYSTEM REQUIREMENTS:

- Laptop/ PC with speaker and microphones (built-in or free-standing).
- Internet access will be needed, virtual platform to be used will be Zoom.
- Participants will receive links by email to attend the training sessions.

## Friendly, Knowledgeable Facilitators

- The course will be presented by facilitators that strongly encourage interactive training, with a willingness to share.
- The first day of the course will be combined with a virtual workshop to encourage the sharing of information from suppliers to users throughout the continent.
- Facilitators will include:
  - Maré Linsky (NMISA)
  - Dr Angelique Botha (NMISA)
  - Dr Maria Fernandes-Whaley (NMISA)



## Acknowledgements:

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