



THE UNITED REPUBLIC OF TANZANIA  
MINISTRY OF INVESTMENT, INDUSTRY AND TRADE  
TANZANIA BUREAU OF STANDARDS (TBS)



ISO 9001:2015 Certified

Member of the International Standardization (ISO), Codex Alimentarius Commission (WHO/FAO), Agent for ISO and other National Standards Bodies

## TRAINING COURSE ANNOUNCEMENT

### COURSE TITLE: UNCERTAINTY OF MEASUREMENTS FOR TESTING LABORATORIES

**Duration: Five working days (13<sup>th</sup> to 17<sup>th</sup> March, 2023)**

**Target participants:** Laboratory analysts, scientists, researchers, laboratory technicians, chemists, laboratory technologists and any other related professionals from testing laboratories.

**NOTE:** Not applicable for medical laboratories

#### Course outline:

- ISO/IEC 17025:2017 Requirements;
- Uncertainty sources, types and estimation process;
- measurements uncertainty evaluation (Approaches/model - GUM and NORDTEST); and
- Use of uncertainty in reporting test results.

#### Course presentation and methodology:

The course will be presented in Swahili or English languages. The course will be delivered in interactive tutor-led and trainee-led discussions, experience from trainees and group participation.

#### Benefits of the course

After successful completion of this course, participants will be able to:

- Differentiate types of uncertainty (Type A and Type B);
- Identify uncertainty contributors;
- Estimate uncertainties of measurement in the laboratory; and
- Application of uncertainty in reporting test results.

#### TBS HEADQUARTERS

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All Correspondence should be addressed to the **DIRECTOR GENERAL**

## Course requirements:

- i) Each participant shall have a laptop and a calculator; and
- ii) Participants shall have prior knowledge on ISO/IEC 17025:2017 standard requirements.

## Course assessment and awards:

A participant who attends the course, participates in group work, exercises and test and scores 60% and above of the final course evaluation shall be awarded a certificate of successful completion. Otherwise, a participant who scores less than 60% of the final course evaluation shall be awarded a certificate of attendance. In addition, participants will be provided with training materials for further reference. Full attendance of participants is required during the course.

## Course fee:

The course fee is **TZS 500,000/- per person for Tanzanians and USD 500 per person for foreigners, non-refundable**. The fee shall cover tuition fee, stationeries, training materials, food and refreshments. Each applicant shall be responsible for his/her own travelling and accommodation expenses.

## Mode of application:

Interested applicants are advised to apply for the course through email [researchandtraining@tbs.go.tz](mailto:researchandtraining@tbs.go.tz) as early as possible since the maximum number of participants required is twenty-five (25) and provide the following information:

- i) Full name of applicant;
- ii) Region and district of applicant;
- iii) Contact (physical address/P. O. Box) of applicant;
- iv) Phone number and email address of applicant; and
- v) Organization name, contact (physical address/P. O. Box), region and district (if any).

**For enquiries, contact us through cell phone No. +255 733 700447.**

## Mode of payment

The course fee shall be paid in full and once fourteen (14) days prior to the date of training. Government bill will be issued to applicant.

## Postponement and cancellation of training

If a participant fails to attend the training for any reason, the paid course fee will not be refunded. In case the Bureau postpones the training, the applicant will be informed **ten (10) days** before commencement of the training course together with re-scheduled date.

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## Training venue

The training will be conducted at Test House 5<sup>th</sup> Floor Wing A at TBS Headquarters, Ubungo Area, Morogoro Road/Sam Nujoma Road, Dar es Salaam.

Issued by:



Gladness H. Kaseka  
**Public Relations and Marketing Manager**



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