

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



مكتب المستشار الوطني
NATIONAL CONSULTING BUREAU

مكتب المستشار الوطني NCB

National Consulting Bureau

In Collaboration with (NIS)

National Institute of Standards – Egypt

Provide Industry

- **Metrology & Calibration Services**
- **International Laboratories Accreditation**
- **Training & Development of Lab. Staff**

About National Institute of Standards

The National Institute of Standards, NIS was established in 1963 just after Egypt become signatory to the Meter Convention in June 1962 under the umbrella of the BIPM in Paris. NIS is thus responsible for operation of the Egyptian measurement system linked to the international system of units (SI) with an ultimate goal of the international recognition of the Egyptian measurement standards and the calibration certificates issued by NIS laboratories.

A large number of scientists and technicians working in NIS who have long experience in various metrological disciplines. They do research work to maintain accurate and reliable performance of the national measurement standards and to develop and improve measurement methods. NIS staff also provides calibration service and training on calibration technologies to the demanding parties, nationally such as the Egyptian organization for standardization and the department of weight & measures and also internationally for many similar organizations in the Arab world and African countries.

In order to keep abreast of the metrological advances on the international scene. NIS established good network of relations and affiliations with the BIPM, and regional metrology organizations such as , EUROMET, APMP and SADC MET, in addition to many international metrology institutes.

According to NIS agreement with NCB, practical Hands-On training can be provided to NCB clients in GCC countries either at their laboratories or at NIS in Cairo . This is in addition to providing advice and consultation in quality assurance, Lab instrument calibration & accreditation to laboratories according to ISO 17025.

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Typical Training Courses of NIS/ NCB

1. Calibration of Universal Testing Machines & Uncertainty Determination
2. Calibration of Torque Transducers & Uncertainty Determination
3. Pressure Metrology
4. Mass Metrology
5. Density & Small Volumes Metrology
6. The Ultrasonic Waves and its Industrial Applications
7. Calibration of Current and Potential Transformers
8. Calibration and Testing for Power and Energy Meters
9. Accurate Electrical DC and Low Frequency Measurement
10. Measurement and Calibration of Radiation Doses and Radiation Protection
11. Thermal Measurement
12. Principles of Fire and Explosion Protection
13. Textile Measurement for Conformity of Quality
14. Photometry & Colorimetry Measurement
15. Measurement of the Optical Radiations Power in the Spectral Range from the Ultra - Violet to the Near Infrared Radiations
16. Quality Manual Preparation
17. ISO/IEC 17025 "International Standard General Requirements for the Competence of Testing and Calibration Laboratories
18. Validation of Measurement Methods Results
19. Proficiency Testing
20. Use of Reference Material
21. Measurement Evaluating of Uncertainty



مكتب المستشار الوطني
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NIS Laboratories & Activities

Practical Hands-On Training

- 1- Length and Precision Engineering Division
 - Primary Length Standard Metrology Lab
 - End and Line Standards Metrology Lab
 - Optical Surface Metrology Lab
- 2- Division of Electrical and Electronics Metrology
 - Division of Electrical and Electronics Metrology Lab
 - Laboratory of Power for High Frequency Ranges
 - Electrical Quantities Metrology Lab
- 3- Division of Mass and Force Metrology
 - Force and Materials Metrology Lab
 - Mass, Density and Pressure Lab
 - Ultrasonic Lab
 - Acoustic Lab
- 4- Division of Photometry and Radiometry Metrology
 - Photometry and Colorimetry Lab
 - Lighting Engineering Lab
 - Radiometry Lab
- 5- Division of Thermometry and Ionizing Dosimeter
 - Thermometry Measurements Lab
 - Ionizing Radiation Measurement Lab
- 6- Division of Chemical Metrology
 - Textile Metrology Protection Lab
 - Fire and Explosion Protection Lab
 - Polymer Metrology and Technology
 - Standard Reference Metrology Lab
- 7- National laboratories Accreditation Bureau
- 8- Total Quality Consultation & Training

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