

#### "Capacity Building and Strengthening Institutional Arrangement"

#### Analysis and sampling of air and air pollution

# Introduction to ISO 17025:99

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# **Quality Control and Accreditation**

- Accreditation
- Technical requirements (section 5 of ISO 17025:2005)
- Assuring the quality of test results
  - Use of CRMs
  - Interlaboratory comparisons/Proficiency testing



# Accreditation

# Formal recognition that an organization is competent to carry out specific tests or types of test

#### <u>Demonstrates</u>

The competence and the sustainable performance of organizations providing testing services



# ISO 17025:2005

- General requirements for the competence of testing and calibration laboratories
  - Management requirements
  - Technical requirements
- First edition published in 2000
- Replaced ISO Guide 25 and EN 45001



# ISO 17025:2005 requirements

- The lab operates a quality system
- Personnel are technically competent
- The lab is able to generate technically valid results *Clause 4 specifies the manegement requirements Clause 5 specifies the technical requirements*



## ISO 17025:2005 Way accreditation

- The accreditation will facilitate:
  - Acceptance of testing and calibration results between countries;
  - Cooperation between labs and other Institutions;
  - Assist in the exchange of information and experience



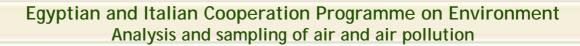
## ISO 17025:2005 vs ISO 9001:2000

- ISO 17025:2005 incorporates all the requirements of ISO 9001:2000
- Testing and calibration labs that comply with ISO 17025 operate in accordance with ISO 9001
- Certification against ISO 9001 does not demonstrate the competence of the labs



# ISO 17025:2005 Management requirements

- Organization
- Quality system
- Document control
- Contract review
- Subcontracting
- Purchasing supplies
- Service to client
- Compliants
- Non-conforming work
- Corrective action
- Preventive action
- Audit
- Records



# ISO 17025:2005 Technical requirements

- Personnel trained and competent
- Accommodation and environment
- Methods and validation
- Equipment
- Measurement traceability
- Sampling
- Handling of Test Items
- Quality assurance
- Reporting