



TURKISH STANDARDS INSTITUTION

International Conference on "Standards in
Response to Global Challenges: Climate
Change, Energy, Water and Nutrition"
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STANDARDIZATION AND RELATED ACTIVITIES IN TURKEY

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CE-1783

Quality is a way of life.
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Establishment

- ❖ TSE was established on 16 October 1954 as an entity under the organization of the Turkish Union of Chambers and Stock Markets (TOBB) for the purpose of developing standards for all sorts of products, processes and services.
- ❖ TSE acquired its current autonomous status by Law 132 that came into force on 22 November 1960.

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Structure

- ◆ **General Assembly**
- ◆ **Technical Board**
- ◆ **Board of Directors**
- ◆ **Auditing Board**
- ◆ **Specialized Groups**
- ◆ **General Secretariat and Affiliated Departments**

Duties

- ◆ **To develop and cause to be developed all kinds of standards**
- ◆ **To study standards drafted within or outside the Institution and to adopt draft standards as Turkish Standards after the approval stage**
- ◆ **To publish the standards so adopted and to encourage their voluntary implementation**
- ◆ **To conduct any scientific and technical study and research in the sphere of standards, to follow up similar work undertaken in foreign countries, to establish relations and to collaborate with international standards organizations or foreign standards bodies**

Duties

- ❖ To set up laboratories for the purposes of carrying out research on standards and for checking the application of voluntary standards, to perform inspection, analyses and tests and to conduct and report on any technical work requested by public or private sector
- ❖ To train personnel with the aim of introducing and developing standards-related activities in the country, and organize courses and seminars for this purpose
- ❖ To engage in work designed to encourage high quality production that is in conformance with standards and to issue reports
- ❖ To carry out research and development work in the fields of Metrology and Calibration and to set up the needed laboratories

Major Activities

- ❖ Standards Development
- ❖ Laboratories
 - Testing Laboratories
 - Calibration Laboratories
- ❖ Certification
 - Product Certification
 - System Certification
 - Personnel Certification
- ❖ Training

**Each activity is performed by relevant centers,
independent from each other**

Standards Development

Ministries, public and private sector organizations, scientific organizations, consumers and users actively participate in standards development.

The number of experts participate in this activity: 3.500

Standards preparation activities

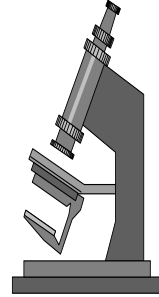
Turkish standards in figures

Valid Turkish standards	28.187
European standards adopted As Turkish standards	15.199 of 15.260
Ratio of European standards Adopted as Turkish standards	% 98.40

Laboratories-Testing

Since its establishment, TSE has been providing laboratory services.

Laboratory services were first launched in TSE Headquarters in Ankara and they are currently being provided by a network of laboratories available in Ankara Headquarters, Gebze Quality Campus, İzmir and Kayseri as well as 4 specialized laboratories located in Denizli, Çorum, Manisa and Turgutlu.



TSE Laboratories annually issue an average of 30.000 test reports.

Laboratories-Calibration

TSE Calibration Center undertakes the following calibration activities:

- Electrical Calibration
- Mechanical Calibration
- Heat Calibration
- Materials Testing Equipment Calibration
- Low and High Frequency Calibration
- Pressure Calibration
- Biomedical Calibration
- Dimension Calibration

Number of calibrated devices (annually/average): 15.000

Number of Certificates for Calibration Training (annually/average): 2.000

Product/Service Business Certification

Total Number of Organizations Certified for Product/Service Business **36.851**

Number of Contracts signed with these organizations **51.523**

Total Number of Import Conformance Certificates issued (annually/average) **105.000**

Notified Body/CE Marking

CE-1783

Notified Body

97/23/EC Pressure Vessels
•90/396/EEC Gas Appliances
•95/16/EC Lifts
•89/106/EEC Construction Products

Audit realized successfully.
Waiting Notification

•1999/36/EC Transportable Pressure Equipment
•90/384/EEC Non-Automatic Weighing Instruments
•92/42/EEC New Hot Water Boilers
•98/37/EEC Machinery

Future

•88/378/EEC Toys
•89/686/EEC Personal Protective Equipment
•Scope enlargement and the other Directives

Management Systems Certification

- ◆ TS EN ISO 9000 Quality Management System (3041 certified firms)
- ◆ TS EN ISO 14001 Environmental Management System (308 certified firms)
- ◆ TS 18001 Occupational Health and Safety Management System (OHSAS) (248 certified firms)
- ◆ TS EN ISO 22000 Food Safety Management System (351 certified firms)
- ◆ TS EN 13485 Medical Devices Management Systems (2 certified firms)
- ◆ TS 17799-2 Information Security Management Systems (11 certified firms)

Personnel Certification

Personnel Certification Performed in Accordance with Occupational Standards

Number of Persons with EOQ Certificate	1.367
Persons with Welder and Non-destructive Testing Certificate	2.090
Persons certified to Occupational Standards	2.972
Total Number of Certified People	6.429

Training

TSE regularly organizes technical training programs on:

- ◆ **Standardization (preparation, development, implementation, etc.)**
- ◆ **Certification (product/service, management systems, personnel)**
- ◆ **Calibration (pressure, electrical, biomedical, material test, length, temperature)**
- ◆ **Informative training programs on the CE Marking**
- ◆ **Old and New Approach Directives**

International Relations

Membership in International Organizations in which TSE represents Turkey

<u>Organizations</u>	<u>Date of Estab.</u>	<u>Entry</u>	<u>Membership Status</u>
ISO (International Organization for Standardization)	(1947)	1955	Full Member
IEC (International Electrotechnical Commission)	(1906)	1956	Full Member
WPO (World Packaging Organization)	(1968)	1986	Full Member
EOQ (European Organization for Quality)	(1957)	1976	Full Member
CEN (European Committee for Standardization)	(1960)	1991	Affiliate Member
CENELEC (European Committee for Electrotechnical Standardization)	(1973)	1991	Affiliate Member

Bilateral Cooperations

- ❖ TSE's contacts with standards institutes under its bilateral co-operation agreements concluded in the fields of standardization, certification, quality, calibration, laboratory services, etc., are maintained on a continuously updated basis.
- ❖ TSE has so far concluded bilateral cooperation agreements with approximately 81 organizations from 65 countries.

Standards in Response to Global Challenges: Climate Change, Energy, Water and Nutrition

- ❖ TSE has been working on the development of standards to address waste generation and management problems, as well as air and water pollution. TSE publishes standards on prevention of pollution, waste water treatment, environmental health and environmental management.
- ❖ TSE published climate change standards namely TS ISO 14064 series in 2007.
- ❖ Turkish national air quality standards which are identical to international and European ones helps improvement of air quality.

Standards in Response to Global Challenges: Climate Change, Energy, Water and Nutrition

- ❖ In Turkey, energy efficiency law was enacted in 2007, and the year of 2008 announced as “Energy Efficiency Year” .
- ❖ A regional workshop of ISO’s project committee, ISO/TC 242 which is to develop International Standards on energy management will be held in June 2009, in Turkey.
- ❖ TSE has developed water quality standards regarding with specially analysis of quality. TS 266 “Water intended for human consumption” compatible with EU directive (98/83/EEC) was entered into force in 2005.

TURKISH STANDARDS INSTITUTION

Thank you for your kind attention!

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