International Trade Centre

Managing Quality in Egypt

A directory of services for SMEs

In collaboration with:

ENGINEERING EXPORT COUNCIL OF EGYPT
المجلس التصديرى للصناعات الهندسية

EOS
الهيئة المصرية العامة للمواصفات والجودة
Egyptian Organization for Standardization and Quality

PTB

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MANAGING QUALITY IN EGYPT

A DIRECTORY OF SERVICES FOR SMES

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Abstract for trade information services

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Companion guide and supplement to the publication, Export Quality Management: A guide for small and medium-sized enterprises, country adaptation for the Egypt. This publication provides an overview of the country's national quality infrastructure that includes food safety and animal and plant health; it also provides contacts of quality-related service providers in Egypt.

Descriptors: Egypt, Quality Control, Quality Management, Standards, Conformity Assessment, Exports, Inspection, Testing and Analysis Services, Certification, Metrology, Accreditation, SPS, TBT, Directories, SMEs, Services.

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Developed by Dr. Ahmed Sultan, Quality Director, National Organization for Military Production in cooperation with ITC and PTB
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Foreword by EOS

This Book is prepared to describe briefly the pillars of the National Quality Infrastructure in Egypt, and the services of the entities and institutions.

A technical quality infrastructure is a combination of initiatives, institutions, organizations, activities and competent persons. It includes a national quality policy and institutions to implement it, a regulatory framework, quality service providers, enterprises, customers and consumers (who include citizens as “consumers” of government services).

Setting up a Quality Infrastructure System is one of the most positive and practical steps that a developing nation can take on the path forward to developing a thriving economy as a basis for prosperity, health and well-being.

A Quality Infrastructure is a system contributing to governmental policy objectives in areas including industrial development, trade competitiveness in global markets, efficient use of natural and human resources, food safety, health, environment and climate change. It offers a complete package addressing the needs of the nation’s citizens, of customers and consumers, and of enterprises and other organizations that offer them products and services. The Quality Infrastructure System covers essential aspects such as policy, institutions, service providers, and the value-adding use of international standards and conformity assessment procedures, along with accreditation to ensure competence of conformity assessment bodies.

The National Quality Infrastructure is the institutional framework that establishes and implements the practice of standardization, including conformity assessment services, metrology, accreditation and market surveillance.

Hence we would like to present this Book with collaboration between PTB, ITC, EOS and EEC to be a guiding hand for exporters & importers to enhance trade exchange.

Ashraf Ismail Mohamed Afifi
EOS Chairman

Foreword by EEC-EG

Quality and Standards play an important role nowadays not only for Export purposes but also for strengthening our national industry in the context of global trade to enjoy fair trade practices based on harmonized technical regulations for market requirements and applying technical regulations.

Quality infrastructure is an important pillar to ensure competiveness for Egyptian products and facilitate their free movement between countries. Egyptian exports are influenced greatly by all national organizations responsible for ensuring the quality and safety of products; in addition to fulfilling the required specifications in order to export.

Accreditation has a positive effect on promoting national exports and on facilitating cross border trade. Exporting products to international markets require conformity of products to the requirements of technical regulations and standards of the importing countries.

Setting up a powerful National Quality Infrastructure is one of the most positive and challenging steps that a developing nation can take on the path forward to establish a thriving economy as a basis for prosperity, health and well-being.

In this context, the Engineering Export Council of Egypt works closely with several organizations to support and enhance the competitiveness of the Egyptian products to enable them to compete in the international markets.

This book is a result of collaboration between PTB, ITC, EOS and EEC-EG to create a clear guide for exporters and importers to pave their way for a better understanding of quality and standards in international trade. We hope this guide will be a useful resource for Egyptian enterprises to effectively compete in the global market.

Eng. Amr Abou Freikha
EEC Chairman

Maha Saleh
EEC Executive Director

Foreword by ITC and PTB

Today's competitive global trade environment demands that small and medium-sized enterprises (SMEs) invest in productivity and quality. Having goods and services that can compete in international markets requires attention to standards and meeting the technical requirements behind these standards. For many SMEs, however, this can be a challenge – especially in view of the growing number of these standards, both public and private.

Governments impose a range of legitimate technical requirements to protect the health and safety of their citizens as well as to safeguard plant and animal life and the environment. Industry associations, multinationals and retailers also develop a range of "voluntary" private standards to meet the increasingly discerning demands of consumers. ITC research has shown that exporters and importers face many challenges related to non-tariff measures. Among the most significant are quality-related technical regulations, conformity assessment procedures, and sanitary and phytosanitary (SPS) measures.

To ensure that enterprises can remain competitive and participate in value chains, they need up-to-date information about the applicable technical requirements in their target markets. These SMEs must adapt their products and processes to satisfy market requirements and demonstrate compliance with these regulations. They must check whether recognized conformity assessment services are available in their country, or whether they must turn to recognized but more costly foreign certification bodies. Gathering such information is costly and burdensome for small businesses, but necessary if they are to internationalize into regional and global markets.

Given this context, the International Trade Centre (ITC) and Physikalisch-Technische Bundesanstalt (PTB − the National Metrology Institute of Germany) are joining forces with partners in developing countries to help SMEs gain wider access to relevant quality management information. ITC and PTB are working with national partners to develop a series of customized national versions to accompany the ITC/PTB guide, *Export Quality Management: A Guide for Small and Medium-sized Exporters*.

National versions are tailored to the needs of each economy. They explain the quality infrastructure and the economy's SPS system, outline local services related to standards, metrology, accreditation and conformity assessment; and point to further information sources on standards, technical regulations and SPS measures in target markets. The national publications also serve as directories, with contacts for quality-related institutions. These targeted documents are published in English and, wherever possible, in the economy's national language. They are accompanied by a series of training programs for SMEs to raise awareness and knowledge of how to improve market access through compliance with standards, technical regulations and SPS measures.

We are confident that this guide will be a useful resource and practical tool for SMEs in Egypt in their efforts to improve competitiveness and increase their participation in international trade.

Arancha González
Executive Director
International Trade Centre

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President
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This guide, originally launched in 2001, was customized and distributed to national partners in 15 countries, including Egypt, showing the need to provide relevant information to SMEs wishing to expand their businesses through trade.

ITC updated and published a new edition of this guide with PTB in 2010. The methodology to customize and distribute local versions has been upgraded too. This is the first local adaptation for Egypt of the revised guide.

This publication has been prepared by Dr. Eng. Ahmed Sultan Hashem, Quality Director, National Organization for Military Production. It has been conceptualized and technically reviewed by Ludovica Ghizzoni and Khemraj Ramful, Adviser and Senior Adviser on Export Quality Management, ITC, and reviewed by Nils Stauch, PTB.

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Acronyms

Unless otherwise specified, all references to dollars ($) are to United States dollars. The term ‘product’ (‘products’) is used to mean both goods and services wherever appropriate and particularly in the chapters on product certification, quality management and ISO 9000.

ABD	Arab British Dynamics Company
ABECO	Arab British Engine Company
ACAA	Agreement on Conformity Assessment and Acceptance of industrial products (between the EU and the Southern Mediterranean countries on industrial products)
ACCREDIA	L'Ente Italiano di Accreditamento (Italian National Accreditation Body)
ACF	Aircraft Factory Company
AEC	Agricultural Export Council
AENOR	AENOR - Asociación Española de Normalización y Certificación (Spanish Standardisation Body)
AFNOR	Association Française de Normalisation (French Standardization Association)
AIDMO	Arab Industrial Development and Mining Organization
ANSI	American National Standards Institute
AOI	Arab Organization for Industrialization
API	American Petroleum Institute
ARAC	Arab Accreditation Cooperation
ARSO	African Regional Organization for Standardization
ASTM	American Society for Testing and Materials
BAM	Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing) Berlin, Germany
BIPM	Bureau international des poids et mesures (International Bureau of Weights and Measures)
BSI	British Standards Institution (BSI Group)
CAPL	Central Agricultural Pesticide Laboratory
CAPQ	Central Administration of Plant Quarantine
CB	Certification Body
CBI	Centre for the Promotion of Imports from developing countries
CCG	Calibration Consulting Group
CD/BMA	Central Department for Bilateral and Multilateral Agreements

CD/ITP	Central Department of International Trade Policies
CD/WTO	Central Department of World Trade Organization Affairs
CEC	Chemicals & Fertilizers Export Council
CEN/CENE	European Committee for Standardization (CEN) / European Committee for Electrotechnical Standardization (CENELEC)
CLAC	Central Laboratory for Agricultural Climate
CLAES	Central Laboratory for Agricultural Expert Systems
CLAR	Central Laboratory for Aquaculture Research
CLDPRD	Central Laboratory for Date Palm Research and Development
CLDSAR	Central Laboratory for Design and Statistical Analysis Research
CLEVB	Central Laboratory for Evaluation of Veterinary Biologics
CLOA	Central Laboratory of Organic Agriculture
CLQP	Central Laboratory for Quality Control of Poultry Production
CIPM	Comité international des poids et mesures (International Committee for Weights and Measures)
ECMI	Export Council of Medical Industries
ECOA	Egyptian Center of Organic Agriculture
EEC	Engineering Export Council of Egypt
EFEC	Egyptian Furniture Export Council
EGAC	Egyptian Accreditation Council
EITP	Egyptian International Trade Point
EOS	Egyptian Organization for Standardization & Quality
EPAU	European Partnership Agreement Unit
ESQ	Egyptian Society for Quality
EU	European Union
FEC	Food Export Council
FEI	Federation of Egyptian Industries
FTTC	Foreign Trade Training Centre
FTS	Foreign Trade Sector
GOEIC	General Organization for Export and Import Control
GOVS	General Organization for Veterinary Services
GVTI	German Vocational Training Institute - Cairo
HTEC	Home Textile Export Council
IEC	International Electrotechnical Commission
IIFT	Indian Institute of Foreign Trade

IMC	Industrial Modernization Centre
ISO	International Organization for Standardization
ITC	International Trade Centre
JASO	Japanese Automobile Standards Organization
JIS	Japanese Industrial Standards
MRA	Mutual Recognition Arrangement
NIS	National Standard Institute
N.M.	Noble Metal
NQC	National Quality Council
NQI	National Quality Institute
OHSAS	Occupational Health and Safety Assessment Series (18001)
OIE	World Organization for Animal Health
OIML	Organization Internationale de Métrologie Légale (International Organization of Legal Metrology)
PT	Proficiency Testing
PTB	Physikalisch-Technische Bundesanstalt
QCAP	Central Laboratory of Residue Analysis of Pesticides & Heavy Metals in Foods
RCFF	Regional Center for Food & Feed
SAE	Society of Automotive Engineers
SAAP	Support to the Association Agreement Programme
SMEs	Small and medium-sized enterprises
SPS	Sanitary and phytosanitary measures
TAS	Trade Agreement Sector
TCF	Textile Consolidation Fund
TBT	Technical Barriers to Trade
TC	Technical Committee
TEC	Textile Export Council
TQM	Total Quality Management
WRC	Weed Research Central Laboratory
WTO	World Trade Organization

Chapter I

Introduction to Export Quality Management in Egypt

The Egyptian quality infrastructure comprises of the universally accepted building blocks. Standardization activities are overseen by the Egyptian Organization for Standardization & Quality (EOS); accreditation activities by the Egyptian Accreditation Council (EGAC); metrology activities are overseen scientifically by the National Standard Institute (NIS), legally by the administration of assay and weights and industrially by public and private entities; and other conformity assessment bodies (testing, certification and inspection) activities are covered by public and private organizations.

The Egyptian quality infrastructure institutions are supported by different organizations for promoting quality and providing training and advisory services such as the National Quality Institute (NQI), the Foreign Trade Training Centre (FTTC), the Industrial Modernization Centre (IMC), the Egyptian Society for Quality (ESQ) and other public and private organizations.

The universally accepted building blocks of the quality infrastructure institutions in Egypt are already existing and individually functioning, with the aim of increasing the consumer's protection, facilitating trade, supporting national industry and improving the quality of life for the Egyptian citizen.

Egypt has come a long way in the area of sanitary and phytosanitary (SPS) measures. It has modified its national system to comply with the World Trade Organization’s technical barriers to trade (TBT) and SPS Agreements to which it is a signatory.

A number of national organizations are responsible for administration of SPS measures, such as the Ministry of Health and Population, the Ministry of Agriculture and Land Reclamation (including the General Organization for Veterinary Services; the Central Administration of Plant Quarantine) and the Ministry of Supply and Internal Trade for market control and food safety.

Chapter II

National Technical Quality Infrastructure including Sanitary and Phytosanitary Institutions in Egypt

National Quality Policies

It is the main responsibility of the National Quality council, which was recently formulated, to elaborate the national quality policy - which is not drafted yet.

National Quality Council

The **National Quality Council (NQC)** has been established in 2012 under the auspices of the Ministry of Trade and Industry. This Council is considered to be an oversight body for Egypt's national quality infrastructure encompassing all essential aspects including industrial quality, and assessment of conformity with standards through various services including testing, certification, inspection, accreditation and metrology. The Council's mandate is to carry out the following roles:

- Set up the policies and strategies for the development of standards related activities, as well as quality and conformity assessment for industrial activities to the extent of fulfilment by the industrial sector, according to the international criteria and any subsequent executive policies and national plans in the field of organizing, planning and activating quality-related activities and conformity assessment.
- Follow up of the implementation of standards, quality-related activities, and conformity assessment in the framework of the national quality strategy and possible revision thereof according to the national requirements.
- Supporting the performance improvement efforts of the executive bodies of the activities related to standards, quality and conformity assessment.
- Study the laws, decrees and regulations related to industry and its quality and providing proposals necessary for its activation or alteration according to the national and international demands.
- Ensure the harmonization between the national and international demands in the fields of standards and quality to increase the volume of trade exchange.
- Enhance the expertise exchange between the organizations and bodies working in the field of quality and conformity assessment in Egypt and their international counterparts to be in a harmony with the international requirements and variations.
- Develop a plan for coordination and integration between ministries, organizations, authorities and companies working in the field of quality and conformity assessment activities.

- Develop a plan for monitoring and assessing indicators of Egyptian products' quality and the impacts of that on the economic growth and the Egyptian consumer.
- Enhance the culture of quality at the educational level and the community in general to achieve national awareness of the importance of quality in products and services.
- Study the civil society needs of the quality requirements and incorporate them in the quality policies and plans.
- Develop programs necessary for boosting the capabilities of local factories and producers to enhance the quality of the Egyptian product and elevate its competitiveness.

NQC has a technical secretariat which for the time being is staffed by the **Egyptian Organization for Standardization & Quality (EOS)**. The Council is chaired by the Minister of Trade and Industry, and the membership consists of all public institutions playing a role in ensuring national quality, as well as of private sector representatives.

The Council's members are as follows:

- Head of EOS;
- Executive Director of the National Council for Accreditation;
- Head of the National Quality Institute;
- Head of the General Organization for Import and Export control;
- Executive Director of the Industry Modernization Center;
- Chief of the Foreign Trade Sector, Ministry of Industry and Foreign Trade;
- Head of the Industries Federation;
- Head of the Industrial Control Authority;
- Head of the Chemistry Authority;
- Head of the Chambers of Commerce Federation;
- Head of the Consumer Protection Agency;
- Chief of the National Institute for Standards;
- A representative of the Industry Council for Technology and Innovation;
- A representative of the Small and Medium Industry Development Center; and
- Representatives of Ministries of Defence, Military Production, Health, Agriculture, Internal Trade, Environment and Scientific Research and in areas related to quality affairs and market surveillance.

Standardization

Egyptian Organization for Standardization & Quality

The **Egyptian Organization for Standardization & Quality (EOS)** is an official body responsible for standardization activities aiming at increasing the competitiveness of Egyptian products in the international and regional markets along with consumer's and environmental protection.

The Presidential Decree no. 29/1957 stipulated the establishment of EOS under the name of "Egyptian Organization for Standardization", and in the same year EOS became an ISO member. Moreover, the quality control centre had been established and joined to EOS according to the Presidential Decree no. 392/1979 and cancels ad replaces the Decree no. 29/1957. Hence, EOS' name was changed to be "Egyptian Organization for Standardization & Quality Control". Lately, EOS name has been changed to "Egyptian Organization for Standardization & Quality" according to the Presidential Decree no. 83/2005.

The duties and responsibilities of EOS as identified by the above mentioned Presidential Decrees are as follows:

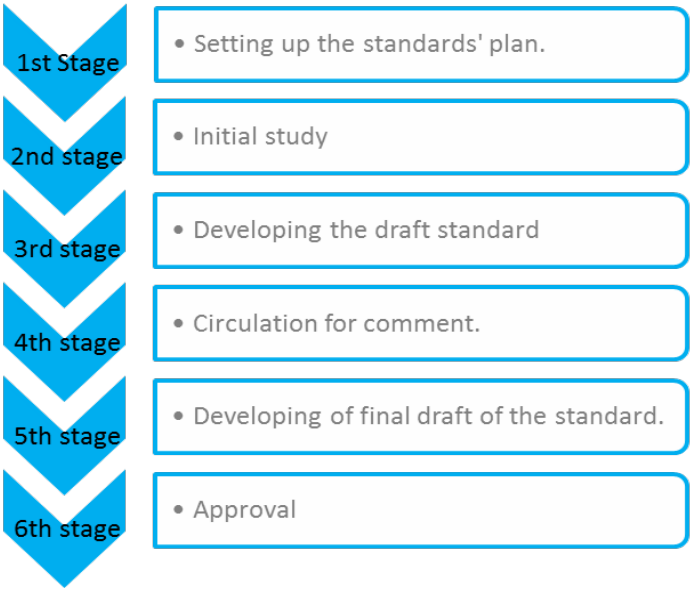
- Develop Egyptian standards for industrial raw materials, substances, products commodities and equipment, industrial processes as well as the standard methods of analysis, testing and conformity assessment along with technical terms, definitions and symbols.
- Provisions of methods for the standardization of raw materials, industrial commodities and products, including the technical studies and researches, technical inspection and control, sampling and testing and establishment of their labs, issuance of standardization certificates and marks in respect of the export oriented local production and imported industrial products.
- Provision of technical advice to the industrial institutions, companies and authorities in the fields of specifications, quality in industrial production, measurement and standardization.
- Training of technicians in the concerned authorities of all standardization activities and industrial quality, measurement and standardization.
- Represent the country in international and regional organizations which are involved in the organization related fields and monitoring of their work, coordination between standardization, quality control and standardization activities in Egypt and their counterpart abroad.

EOS has issued more than 10.000 Egyptian standards covering all the different industrial sectors and about 500 draft standards are in the different stages by 159 technical committees in the fields of: food products, chemical products and construction materials and refractories, textile products, engineering products, communications and medical equipment, metrology and measurement methods and equipment, safety and security

systems, quality, environmental, energy and food safety management systems (adopted from International systems as national one), documentation and information, communication system, consumer affairs.

A. Developing the Egyptian standard

Figure 1: Egyptian standard development stages



Source: *EOS Standardization Dep. Internal procedure*

B. Egyptian Standards Bases

The Egyptian standards are developed with the aim to support the following:

- Upgrade the local production/services to the international level and raise its competitiveness
- Study the international and regional, as well as the Arab standards to enhance Egypt`s participation in international standardization
- Increase productivity and improve the product quality in the various fields
- Simplicity and mutuality facilitate harmonization of national standards with international and regional standards

- Safety, health, protection of life and environment
- Consumer and producer protection
- Reduce costs and complete saving in human effort, materials and energy
- Increase competitiveness of the Egyptian products in the local and international markets
- Facilitate Trade

C. EOS and International Standardization

EOS is a member on the following international and regional organizations:

- International Organization for Standardization (ISO) – Member body.
- European Standards Organization (CEN) – Affiliated member.
- African Regional Organization for Standardization (ARSO) – Full member.
- Arab Industrial Development and Mining Organization (AIDMO) – Full member.
- Standards & Metrology Institute for Islamic Countries (SMIIC) Board of Directors.

The Ministry of Electricity is the Egyptian member of IEC; for that an MOU between EOS and the Ministry of Electricity was signed, that gives EOS the right to get IEC standards for the internal use and to participate on IEC/TC meetings.

In this regard, and in case where there is no Egyptian standard for a product, one of the following international and foreign standards should be applied as in below sequences (Ministerial Decrees no. 180/1996 and no. 291/2003):

- ISO Standards
- IEC Standards
- EN Standards, and if not available, BS, DIN or NF Standards could be used
- American National Standards (ANSI)
- Japanese Industrial Standards (JIS)
- CODEX Standards
- American Society for Testing and Materials Standards (ASTM International)
- Japanese Automobile Standards Organization (JASO)
- Society of Automotive Engineers (SAE) Standards
- American Petroleum Institute Standards (API)

EOS celebrates the World Standards Day which is conducted by ISO on 14th October every year, and Appreciation Certificate are given to Official Sponsor industries of the event, in addition to the outstanding worker and EOS Former Directors,

D. EOS national and international coordination and communication activities

- Set up and update databases in the fields of Standards, Quality, and Human resources.
- Design EOS main information network and update it regularly.
- Develop EOS website along with selling Egyptian Standards electronically.
- Coordinate with ISO to exchange documents electronically.
- Access ISO balloting portal for electronic voting on ISO standards projects.
- Provide training for EOS staff in the Field of information technology and systems.
- Undertaking the responsibility of the enquiry point relevant to Technical Barriers to Trade Agreement (TBT).

E. Standardization services offered by EOS

- Develop Egyptian standards Electronic Catalogue.
- Develop and offer the service of purchasing the Egyptian standards.
- Offer the service of purchasing international and regional standards.
- Translate Egyptian standards for regional and foreign bodies.
- Study the possibility of issuing an Egyptian standard for products and services according to various concerned bodies' requests.

Conformity Assessment (testing, certification of products and systems and inspection)

Testing

The testing services available to the Egyptian industry and SMEs are various. Most of the laboratories are owned by the Government and their fees are fairly low. Some of these governmentally owned laboratories are sufficiently equipped and accredited by EGAC and the expansion of scope of accreditation, and missing tests for those laboratories depends upon the budget of the owner entity. The number of accredited laboratories is about 242 as listed on EGAC website (http://www.egac.gov.eg/). Among these laboratories the main ones that are related to trade of goods are listed below. This list is not exhaustive.

Government testing laboratories

The following table lists the laboratories that are owned by the State. In most cases their budget is part of the State budget; while only few of them have financial, administrative and technical independence. All below testing entities are accredited by EGAC but not on all parameters. The list of EGAC accredited laboratories varies on a constant basis thus it is recommended to visit the EGAC website for up-to-date information: http://www.egac.gov.eg/egac.php?id=20.

The laboratories providing services in support to the plant health control are described under the section Plant Health of the addendum.

The laboratories providing calibration services are described in the section Metrology of the addendum.

Table 1: Government testing laboratories[1]

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
Chemical administration – Ministry of Industry, Trade and SMEs		
Water and industrial wastes testing lab	**Water and industrial wastes**	Consumed chemical oxygen Total organic carbon Total alkalinity (carbonate and bicarbonate) PH Phenol Oil and grease Turbidity Cations such as Calcium, Iron, Magnesium, Manganese, Sodium, Potassium Anions such as fluorides - nitrates - chlorides - sulphates - phosphate – nitrite
Food testing laboratories	Fish and fish products, Spices, Meat and its manufactured products, Soft drinks and juices, Flour and its manufactured products, Cereal, candy, cocoa and its products, Vegetables and fruits and their products,	Nitrogen estimation Volatile acidity Proportion of salt Saponification number Estimate of caffeine Physical testing (density tests, refractive-degree, polarization coefficient)

[1] For the exact scope of accreditation please refer to the EGAC website

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
	Animal feed and poultry, Dairy products such as milk powder, liquid milk, natural margarine butter and Cheese of all kinds	Cold and hot Fat extraction after acid digestion and after digestion alkali
Textile testing laboratories	**All types of textiles (clothes, carpets, rugs, etc.)**	Wet resistance and water permeability Number of stitches Number of twist Carpet friction Number of threads in the warp and weft directional Microscopic examination of the fibres Tensile strength and elongation resistance Absorption Longitudinal density Resistant fabrics for rupture and rubbing Colour fastness Dimensioning Flame resistant Length cutter Thickness of carpet pile height Air permeability of the fabric Fibre identification Extraction of oils, fats and waxes from wool Ash and exotic materials determination The proportion of bush materials of starch and glue and materials being present The proportion of materials soluble in water Quantitative analysis of fibre mixture
Tobacco and miscellaneous testing laboratories	Dry and raw tobacco (leaf–fibre - minced - crunched), Cigarette and tobacco products	**Physical Tests** Humidity Sand ratio Ash content Soft smoked ratio Non-soluble substances ratio pH **Chemical Tests** Sugars ratios Carbonate and bicarbonate ratios Glycerol ratios

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
		Nicotine ratios Starch ratio
Vegetable oils, detergents and soap testing laboratories	Vegetable oils, grease and Detergents and soaps	**Vegetable oils and grease** Iodine Number The ratio of non-offset saponifiable materials Peroxide No Relative density Freezing temperature of fatty acids Refracting coefficient Humidity Fatty acid ratio in oils Impurities rate Heavy elements Flash Point Melting point **Detergents and soaps** Estimation of the weight loss by heating at 105 ˚C Estimation of non-carbonated Estimation of oxygen free Enzymes Estimation of Poly-phosphate silicate – sulphate carbonate and sodium chlorides Determination of pH Appearance photosynthesis Phosphate Estimation of non-organic materials Estimation of the effective surface of the active material Percentage of chlorides Percentage of sulphate
Alcohol testing laboratories	Aromatic oils, Shampoo, Perfumes, Deodorant, Essential Oils, Yeast, Cosmetics, Ethyl alcohol, Water cologne, Drinks light appetite, Water and natural aromatic	Rancidity Estimate esters Miscibility Specific gravity Refractive index pH Heavy metals

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
		Water content ratio Ratio oblique materials Class alcoholic truth Estimate Supreme alcohol Alcoholic class phenomenon Total acidity value Essential oil ratio Detection of methyl alcohol The proportion of active ingredients in shampoos
Engineering testing laboratories	Faucets, valves, blades, Aluminium vessels, spoons, forks and fire extinguishers	Hydraulic pressure for faucets and valves Discharge test and measurement Test razor blades Measuring the volume and thickness of Aluminium vessels Resistance of elision test for spoons and forks Operating pressure, testing and bombing of fire extinguishers
Leather testing laboratories	**Leather and leather products**	**Physical tests** Tensile strength Elongation strength Water absorption percentage Corrosion coefficient Cracking resistance Percentage of surface contraction Tear resistance Resistance to bending **Chemical tests** The percentage of moisture Percentage of ashes Fatty materials percentage PH The percentage of chromium oxide Percentage of skin material The percentage of non-viable materials for saponification (for fatty substances)

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
Plastics and rubber testing laboratories	**Plastics and plastics products and rubber and rubber products**	**Physical tests** Specific weight Determination of resistance to water Resistance to abrasion Resistance to shock Tensile strength and elongation Estimate the strength of the adhesion of the rubber layers Resistance to rupture Reconstruction resistance (storage) Degree of hardness Measuring the flexibility of linoleum floors Explosion resistance with air pressure Resistance isolated electricity wires to fires **Chemical tests** Determination of plastic or rubber type Determination of percentage of ash or carbon free Resistance to chemicals Percentage of esters in polyesters Percentage of dissolve materials in acetone Stability of plastic
General Organization for Export and Import Control (GOEIC) – Ministry of Industry, Trade and SMEs		
Food testing laboratories	**All food staff**	**Food Chemical Lab** Acid degree value Acidity Alkalinity Ammonia Ash Ash, gravimetric and acid insoluble Casein; precipitated protein at pH 4.6 (includes protein result Cation Exchange Capacity Chloride Conductivity Dietary fibre, total/insoluble/soluble Exchangeable Cations

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
		Exchangeable Sodium Fat Fatty acid profile in fats and oils (includes trans) Fatty acid profile in foods (includes trans) Free fatty acid / acid value Histamine in seafood products Moisture Nitrate Nitrite Nitrogen **Trace Element Lab** Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Potassium Selenium Silver Sodium Thallium Tin Vanadium Zinc

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
		Pesticide Residue Lab Organo-chlorinated pesticides (HCB / a-HCH / b-HCH / g-HCH / Heptachlor /Dieldrin/Endrin/ Aldrin / cis-Chlordane / trans-Chlordane / DDT p,p/ DDE p,p) Polychlorinated-biphenyl congener (PCBs 28 / PCBs 52 / PCBs 101 / PCBs 118 / PCBs 153 / Polychlorinated-biphenyl congener PCBs 138 / PCBs 180) Organo- phosphorous pesticides (Malathion/Profenofos/Chlorpyrifos Methyl /Chlorpyrifos/Dimethoate) **Toxin Lab** Aflatoxin (B1 / B2 / G1 / G2) Microbiology Lab: Non-pathogenic microorganism (Aerobic colony count /Enterobacteriaceae/ Coli forms /Thermo tolerant coli forms / Escherichia coli / Yeast / Mould) Pathogenic micro-organism (Salmonella spp. / Staph. aureus / Clostridium perfringens/Listeria monocytogenes/ Shigella spp. / Campylobacter spp.)
Industrial chemistry testing laboratories	**All types of glass, Ceramic, Melamine, Plastics, Marble, Granite, Detergents, Adhesives**	Crystal glass table ware Ceramic table ware Melamine table ware Thermal glass cooking ware Thermo plastic table ware Laboratory glass from borosilicates Marble Granite Detergents Liquid detergents for water closet Adhesives Glass liquid cleaner Liquid detergents for ovens and cookers Glues Varnish used in gold size Identifications of fibres in textiles Adhesive of paper Insulated containers, vacuum ware

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
		insulated flask Glass table ware Ball point pens, refills and marking pens Detergent powder- liquid soap Particle board coated by melamine Fibrous wood panels
Industrial testing laboratories	Vehicle spare parts and equipment, Electrical equipment and Chemicals, refractories, building material, Valves and pressure, Belts, Fire extinguishers, Water pumps for house usage, Basins and bowels, Gas Cylinders valves, Hoses, Watches, Pipes and fittings and plates, Gas household appliances, Tableware sets and cooking vessels	**Vehicle spare parts and equipment labs** Air filters Fuel and oils filters Hardness measurements Shock absorber (Springs, suspensions, etc.) Vehicles' Electrical parts (Cables, vehicle lamps, etc.) Brings and alloys (piston, seal, rings, etc.) Tires and wheels Frictional materials (brake Linings, cylinder and disc clutch, etc.) **Electrical equipment labs** Electrical household appliances Glow Wire Optical and photometric AC motors with fractional power Electrical motors Circuit breakers and switches Acoustics And Videos equipment's Transformers Acid and alkaline batteries Dry batteries Electrical Kits and supplies Plugs and sockets Electrical miscellaneous Chemicals, refractories and building material labs: Spectrophotometric analysis of chemical elements in Ferro Alloys Grinding, abrasive materials and cutting wheels Leathers and shoes Textiles

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
		Door locks Glass and mirrors and elastomers Ceramics and cement Safety matches Construction materials Polymers **Miscellaneous labs** Mechanical properties Valves and pressure Belts Fire extinguishers Water pumps for house usage Basins and bowels Gas Cylinders valves Hoses Watches Pipes and fittings and plates Gas household appliances Tableware sets and cooking vessels
National Research Centre – Central Lab – Ministry of Scientific Research		
Material Testing Lab	Ceramics, Polymers, Solid Matter, Textile and Paper	Ceramics, Polymers and Solid Matter Textile and Paper Isotopes X-Rays Thermal Analysis Mycotoxins
Central Services Lab	**All products**	IR Mass Spec EM (Scan, Trans) Atomic Absorption and UV NMR Microanalysis GC/MS HPLC & GLC (Amino acid Analysis) ESR Raman Spec. GLC/MS

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
Egyptian Organization for Standardization (EOS) - Ministry of Industry, Trade and SMEs		
Chemical Products and Construction Material Testing Laboratories	**Chemical Products and Construction Material**	Construction materials Paper, stationery and inks Paintings Furniture, wood and wood adhesives Glass and ceramics Leather and shoes Plastic and rubber Petroleum products, mineral oils and greases Miscellaneous chemicals Industrial detergents Atomic absorption X-rays
Food Products Testing Laboratories	**Food Products**	Oils and soap Carbohydrates Tobacco and its products Meat and fish, milk and milk products Miscellaneous lab for flavours Beverages and alcohols Microbiology Chromatography
Engineering Products Testing Laboratories	**Engineering Products**	Brakes lining Electric lamps Electric household appliances Petroleum household appliances Fire extinguishers Sparkling plugs Mechanical tests Pressure lab Lamps life timer test Electrical tests Filters
Textile Products Testing Laboratories	**Textile Products**	Spinning and yarns Fabrics Carpets, wools Dye and preparation

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
Textile Consolidation Fund – TCF		
Environmental Textile Testing Laboratories	**Textile Products**	Determination of pH Determination of formaldehyde Determination of Phenols Determination of heavy metals Determination of azo dyes Determination of Phthalates Determination of Colour Fastness to Water (staining) Determination of Colour Fastness to Acidic Perspiration & Alkaline Perspiration (Staining) Determination of Colour Fastness to Saliva and Perspiration (Staining) Determination of Colour Fastness to Saliva (Staining) Determination of Colour Fastness to Dry Rubbing (Staining) Determination of total Lead Content Detection of Nickel (Qualitative Testing) Determination of Nickel released from products intended to come into direct and prolonged contact with the skin Colour fastness to light Water resistance: rain test Flame resistance of textile (vertical test) Calculation of small colour difference for acceptability Measuring the whiteness Colour fastness to phenolic yellowing Colour fastness to chlorinated water Colour fastness to hot pressing Colour fastness to sea water Colour fastness to domestic and commercial laundering Identification of fibres Qualitative (flame, microscope) Quantitative (chemical analysis) Quantitative analysis of binary textile fibre mixtures

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
		Determination of pH of the aqueous extract Determination of resistance to surface wetting (spray test) PVC identification (qualitative) Colour fastness to burnt gas fumes Flammability of clothing textiles Colour fastness to ozone in the atmosphere Determination of the elasticity Determination of maximum force to Seam rupture Determination of the slippage resistance of yarns at a seam Determination of dimensional Change in washing and drying Determination of spirality after laundering Zipper strength Methods of test for elastic fabrics Mechanical hazard testing for Apparel Components Tension and torque testing of trim Components (for zipper) Measurement of physical properties of cotton fibre by high volume instruments (HVI): • fibre length • fibre fineness • fibre colour Fibre strength & elongation Linear density of yarn (yarn number by skein method) Tensile properties of yarns by the single-strand method Determination of twist Measuring of irregularity and imperfection Determination of breaking force and elongation (strip method) Measurement of fabric mass per unit area Determination of fabric mass per unit area using small samples (fabric weight) Fabric tensile strength (Grab method) Ability of fabric to form pills Determination of tear strength (ballistic

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
		pendulum method) Determination of bursting strength Determination of the abrasion resistance Ability of fabric to form pills Determination of surface flammability Standard specification for tolerances Determination of fabric count Evaluation of smoothness appearance of fabrics after repeated laundering

The following table is illustrative of few private laboratories accredited by EGAC. The list, as of March 2017, is not exhaustive as there are multiple private laboratories also inside factories accredited by EGAC. For up-to-date information visit the EGAC website.

Table 2: Private Testing Laboratories - Accredited by EGAC[2]

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
Moody Intertek Egypt		
Textile Testing Laboratory	**Textile products**	Colour fastness to artificial light (xenon arc) Colour fastness to washing Colour fastness to dry cleaning Colour fastness to rubbing / crocking Colour fastness to water Colour fastness to sea water Colour fastness to chlorinated water (swimming-pool water) Colour fastness to perspiration Dimensional stability to washing Skewness (Spirality/Torque) Determination of mass per unit area (weight) Fabric Count / Stitch Density Determination of number of threads per unit length

[2] For the exact scope of accreditation please refer to the EGAC website

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
		Determination of tensile strength Determination of tear strength Seam properties Determination of bursting strength (except height at burst) Determination of the abrasion resistance Determination of pilling resistance Flammability test Determination of Phthalate Plasticizers Determination of Lead Determination of certain aromatic amines derived from azo colorants Formaldehyde content analyses Fibre Composition Fibre Composition Determination of pH value
Other Testing Activities	**Miscellaneous products**	Analytical Laboratories Automotive Testing Services Biofuels Testing Chemical Testing Cosmetics Testing CPSIA Testing EMC Testing Energy Efficiency Testing Fire Testing Food Testing Footwear Testing Furniture Testing Juvenile Products Testing Materials Analysis and Testing Mineral Assay and Testing Packaging Testing Performance Testing Petroleum Testing

Laboratory	Group of products, materials or items tested	Laboratory capabilities or Specific tests
		Pharmaceutical Testing Product Safety Testing Toy Testing REACH Testing
SGS Egypt		
Textile Testing Laboratory	**Textile products**	Determination of colour fastness to light Determination of colour fastness to domestic and commercial laundering Determination of colour fastness to water Determination of colour fastness to rubbing / crocking Determination of colour fastness to sea water Determination of colour fastness to laundering (accelerated) Determination of colour fastness to perspiration Determination of dimensional changes of fabrics after home laundering Determination of dimensional changes of garment after home laundering Determination of dimensional changes in washing and drying Determination of skewness change in fabric and garment twist (Spirality) Determination of mass per unit area (weight) of fabric
Minerals & Petroleum Testing Laboratory	**Minerals and Petroleum products**	Determination of phosphorus (Water Soluble) Determination of phosphorus (Total) Determination of water content Determination of biuret Determination of volatile matter Determination of ash content Determination of relative density Determination of water content Determination of sediment Determination of sulphur Determination of loss in mass at 80 0C Determination of ash at 850 - 900 0C Determination of acidity

Certification

Product Certification - EOS

EOS is the solely body in Egypt responsible for granting the Egyptian Quality Mark, and also issuing the Conformity Mark and conformity certificates for industrial commodities and products according to the Egyptian and foreign standards as well as the Halal Mark according to EOS procedures aligned with Islamic regulations (Shariah).

Products certification fields are Engineering such as electric, metallic, mechanical and telecommunication products, Chemical such as cement, paints and plastics products, Food products such as water, canned food, Meat, Fish and oil products and Textile such as cotton, woollen and synesthetic products.

The fields of licensing Halal mark are: Food products, Cosmetics, self-care products and Pharmaceuticals.

A. Egyptian Quality Mark

- Refers to the conformity of the product to the relevant Egyptian standard.
- The presence of the Egyptian Quality Mark (voluntary) on any product means that this product has been inspected, tested and be assured of its conformity to the relevant Egyptian or foreign standards.
- Granting Quality Mark licenses depends on the results of technical assessment carried out by EOS.

B. Procedures to affix the Egyptian Quality Mark on a product

- The respective facility shall submit an application to receive the license authorizing the use of the Egyptian Quality Mark and a payment of the statutory fees is mandate.
- A review is conducted to assure that the required template is accurate and complete, then notifying the facility of outcomes of the review process. If some documentation is not yet satisfied, the respective facility will be contacted to provide the missing documentation or to provide clarification as appropriate.
- An Evaluation team is designated for an initial evaluation with the following tasks:
  - Verifying the information included in the application request.
  - Reviewing the quality control procedures.
  - Examining the procedures of manufacturing and trading of the specified item(s).
  - Reviewing the level of competency of the workforce supporting the production

line of the candidate product (including staff qualifications, training, level of expertise, and skills).

- Examining the records maintained by the facility regarding the production, quality assurance, warehouses, and personnel efficiency.
- Evaluating the laboratories and the condition of laboratory equipment as well as the level of personnel efficiency.
- Testing the final product at the EOS' labs (as pertains to some types of tests) or other laboratories if tests are not provided by EOS.

If all the above is verified and validated, a sample from different types and varieties of the final product should be drawn and tested in accordance to the applicable standard.

- If the respective facility satisfies the identified criteria, the facility documents moved to the next level during which the results presented to the Certification Committee to make a decision.
- In the event that the samples drawn from the identified product do not conform to the criteria, and in case the facility demonstrates its interest to pursue the certification process, including payment of statutory fees, the initial assessment shall be repeated, including adoption of required corrective actions, within a period not exceeding 60 days.
- The respective facility receives the license to use the quality mark. The term of the license agreement is effective for two years and may be renewed for subsequent period.
- Regular visits to monitor the extent to which the facility granted the license to use the quality mark during the term of the contract; no less than three regular monitoring visits per annum.

Egyptian Conformity Certificate

- Egyptian conformity certificate is a certificate issued by EOS upon the request of the facility, indicating the conformity of a special amount of the product to the relevant Egyptian or foreign standard after conducting the required technical studies.

Procedures of obtaining the conformity certificate:

- The facility submits an application for obtaining the conformity certificate to EOS for supplying a certain product to any concerned body.
- A visit to the facility is conducted by an EOS representative and random samples are drawn representing the supply required for granting the conformity.

- Testing and inspecting the drawn samples according to the relevant Egyptian or foreign standard either at EOS or the facility labs or any accredited labs.
- Assessing the testing and auditing results to indicate their conformity to the relevant standards.
- Granting the conformity certificates: in case of conformity of the drawn samples to the relevant standards and after remitting the required fees. In case of non-conformity the facility is notified with the non-conformed items.

Egyptian Conformity Mark

- Egyptian Conformity Mark is an approved mark by EOS referring to the conformity of the product to the relevant mandatory Egyptian standards for engineering products.

Procedures to affix the conformity mark on a product:

- An application should be submitted to EOS to receive the license authorizing the use of the Egyptian Conformity Mark and a payment of the statutory fees is mandatory.
- A review is conducted to assure that the required template is accurate and complete, then notifying the facility of outcomes of the review process, if some documentation are not yet satisfied, the respective facility is contacted to provide missing documentation or to provide clarification as appropriate.
- A visit is conducted to the facility to study its potentialities and the manufacture of the prototype for production.
- Conducting the tests and inspections on the prototype according to the relevant Egyptian standards and evaluating the test results.
- Notifying the requester entity as soon as finalizing the tests and inspections.

In case of conformity, the requester entity is notified to start the production process according to the prototype while keeping it in the establishment so as to refer to it in case of necessity.

In case of non-conformity, the requester entity is notified with the reasons to take necessary measures for it and provide a new prototype to be retested.

The requester entity should submit an application for inspecting the production batch and obtaining the conformity marks.

Halal Mark

- EOS is the sole body responsible for licensing production companies to affix Halal mark on commodities and products in the light of Egyptian standards issued in this connection.

- The mark is granted according to the Egyptian Standard (4249/2014) concerning general requirements of Halal certification, in compliance with the Islamic Shariah rules.
- Fields of licensing Halal mark are: Food products, Cosmetics and self-care products, Pharmaceuticals.

Procedures to obtain the Halal Mark:

The facility submits a request to receive the license to use the Halal Mark and pay the fees associated with the request.

EOS Halal Unit formulates an evaluation team to review the documents and conduct on-site visit.

On-site review by the evaluation team to the facility for the validation of all technical documents and management system and processes operated by the facility and reviewing the tests performed in laboratories that are pre-approved by the Halal Food Unit.

The above procedures are reported to a Process Validation Committee.

On the basis of the resolution made by the Process Validation Committee, the request to receive the license to use the Halal Mark shall be either rejected along with justifications that explain this decision or shall be returned to the review committee to address observations, if any, or otherwise shall be approved.

The facility may request renewal of the license every two years.

Figure 2: Examples of the Egyptian Quality Marks

Egyptian Quality Mark

Conformity Mark

Halal Mark

Source: Ahmed *Sultan*

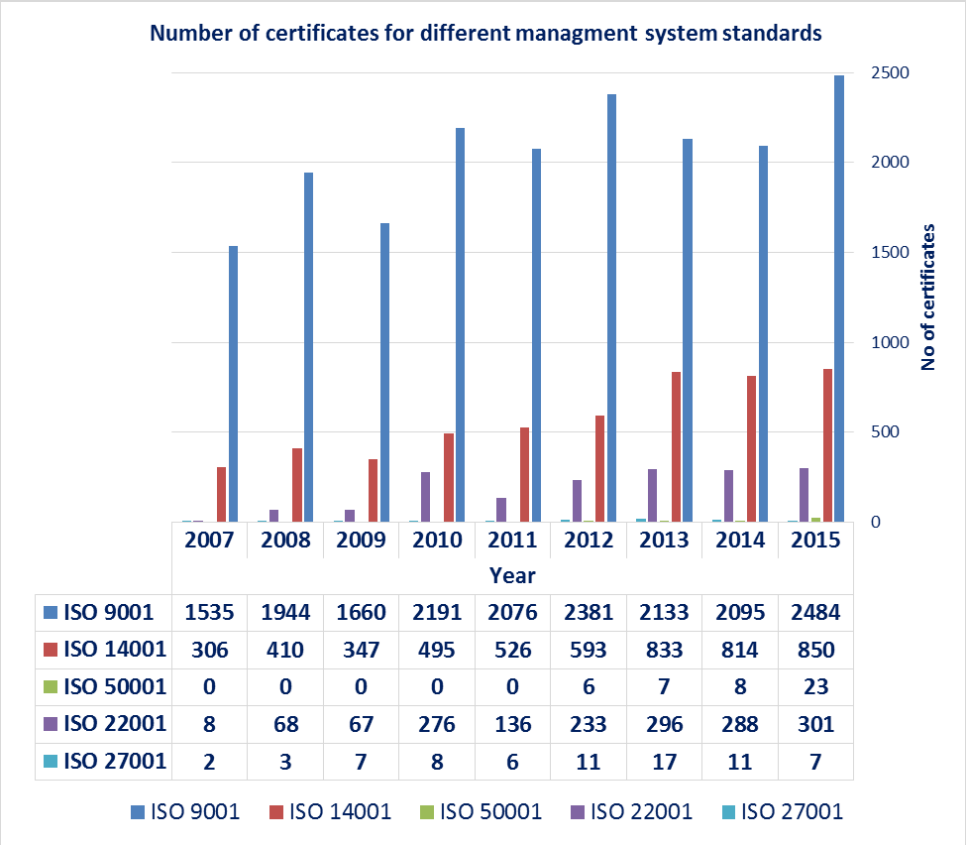
System Certification

The number of companies certified to be in compliance with the requirements of different management system standards varies year by year and they go up and down. As shown in Figure 3, this can be attributes to the international trade and the economic situation of the country.

Overall the number of Certificates over the last nine (9) years is increased as described below:

- For ISO 9001, No of companies certified according to the requirements of this international standard is increased from 1535 companies in 2007 to 2076 companies 2011 and for the year of 2015 it reaches 2484 by an increase percentages of approximately 62% within nine years.
- For ISO 14001, No of companies certified according to the requirements of this international standards is increased from 306 companies in 2007 to 526 companies in 2011 and for the year of 2015 it reaches 850 by an increase percentages of approximately 278 % within nine years.
- For ISO 22001 an increase of only eight (8) companies was recorded from 2007 with 301 companies in year 2015.
- For other management systems such as ISO 50001 the increase of the No of companies certified against is 383% over four years.

Figure 3: Number of certificates for different management system standards in Egypt



	2007	2008	2009	2010	2011	2012	2013	2014	2015
ISO 9001	1535	1944	1660	2191	2076	2381	2133	2095	2484
ISO 14001	306	410	347	495	526	593	833	814	850
ISO 50001	0	0	0	0	0	6	7	8	23
ISO 22001	8	68	67	276	136	233	296	288	301
ISO 27001	2	3	7	8	6	11	17	11	7

Source: *ISO Survey (https://www.iso.org/the-iso-survey.html)*

The companies working as certification bodies of management system standards are private companies, and those companies are accredited by EGAC. The certified companies should be registered on EOS in Quality Management Systems Certificates registration unit which was established to activate the Minister of Trade and Industry's Decree No. 415/ 2010 on registration procedures and verification of ISO certificates of quality, environmental management systems, or safety or international, regional, foreign quality marks or any relevant certificates of local or international management systems.

For organic products, the Minister of Trade and Industry's Decision No. 993/2010, on organizing the quality of organic products traded in the Egyptian markets, issued under the provisions of this resolution stated that all granting bodies and companies concerned with certification of organic production in Egypt should adhere to the following:

- Registering its entire data, its activity and practice (international accreditation certificate) at the Egyptian Organization for Standardization & Quality (EOS).
- Taking into account the rules and procedures set by EOS when granting these certificates.
- Notifying EOS with a copy of the certificates granted to any establishment. The organic production bodies should comply with the following:
    - Obtaining a certificate from one of the granting bodies registered at EOS that reports following the rules of organic production according to the relevant Egyptian standards.
    - These certificates should be registered at EOS when obtained or renewed.
    - Writing the data stated in the Egyptian standards for organic products on the package and products before setting it into markets.
    - Do not put the name of Organic product or dynamically Bio or any other similar word on any product before registration at EOS.
    - Producers of organic products are not allowed to display any mark or marketing any product by any way on an organic product indicating (Organic) or (Bio) or any similar word before getting a letter of registration from EOS.
    - The concerned bodies and companies are licensed to apply this decision during a period of three months to reconcile the situation from the day following its publication.

The list of the organic production certificates for granting bodies registered at EOS are available on EOS website (http://www.eos.org.eg/ar/page/58).

For GLOBALGAP certificates, one accredited body is working in Egypt, the Egyptian Center of Organic Agriculture (ECOA) and 11 Branches of Certification Bodies are working in the Country as well. (The full list of these bodies is available on the website: http://www.globalgap.org/uk_en/what-we-do/the-gg-system/certification/Approved-CBs).

There are a number of private bodies operating in Egypt issuing conformity certification of different management systems being accredited by the national accreditation body or other international accreditation bodies. The main ones accredited by the national accreditation body EGAC are reported below. This list is not exhaustive.

Table 3: Private bodies issuing conformity certification of different management systems[3]

Name of CB	Certification	Accreditation Body	Related other Services
GIC –EGYPT	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	JAS-ANZ UKAS JAS-ANS JAS-ANS JAS-ANZ UKAS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.gic4tr.com/
British Certifications Inc (BCI – EGYPT)	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	JAS-ANZ JAS-ANZ JAS-ANZ JAS-ANZ	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.bciegypt.com
AJA – EGYPT	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	UKAS, JAS-ANZ, ANAB ANAB UKAS UKAS, ANAB	No other services are provided. For more information you can visit: http://www.ajaregistrarsgroup.com
INTERTEK INTERNATIONAL EGYPT	ISO 9001 ISO 14001 OHSAS18001 ISO 22000	UKAS, EGAC EGAC UKAS, EGAC UKAS, EGAC	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.intertek.com/contact/ema
TUV SÜD-EGYPT	ISO 9001 OHSAS18001 ISO/TS 16949 ISO 22000 ISO 14001	DKAAS DKAAS IATF DKAAS DKAAS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.tuvegypt.com/

[3] (i.e. ISO 9001, ISO 14001, ISO 22000, OHSAS 18001) - accredited by the national accreditation body EGAC or any internationally recognized body

Name of CB	Certification	Accreditation Body	Related other Services
ISOQAR-EGYPT	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	UKAS UKAS UKAS UKAS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.isoqaregypt.com
United Registrar of Systems LTD (URS Egypt)	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	UKAS UKAS UKAS UKAS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.ursegypt.com
SGS EGYPT LTD	ISO 9001 OHSAS18001 ISO 16949 ISO 50001 ISO 22000 ISO 14001 ISO 13485 HACCP	UKAS, EGAC SAS, EGAC IATF ACCREDIA SAS, UKAS, EGAC UKAS, EGAC UKAS -	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.sgs.com.eg/en
QA TECHNIC-EGYPT	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	DKAAS UKAS UKAS DKAAS DKAAS-UKAS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.qatechniceg.com
TÜO Technical Supervision Organization for Safety Quality Environmental Protection	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	DKAAS EGAC EGAC EGAC DKAAS EGAC	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.elsheriftueo.com
American Systems Registrar (ASR - Egypt)	ISO 9001 ISO 14001	ANAB ANAB	On line training in different management system standards. For more information you can visit: http://www.asrworldwide.com/363-american-systems-registrar-4.html

Name of CB	Certification	Accreditation Body	Related other Services
RINA Services S.P.A – Egypt.	ISO 9001 OHSAS18001 ISO 22000 ISO 27001 ISO 14001 ISO 13485	ACCREDIA- ANAB EGAC ACCREDIA- ANAB EGAC ANAB ANAB ACCREDIA- ANAB - EGAC ACCREDIA	No other services are provided. For more information you can visit: http://www.rina.org
AMY International	ISO 9001 OHSAS18001 ISO 22000 ISO 14001 ISO 13485	SAS-TURKAK, ESYD SAS-ESYD SAS SAS-TURKAK, ESYD SAS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.amyinternational.org
DQS CERT - EGYPT	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	DAKKS DAKKS DAKKS DAKKS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.dqscerteg.com
TÜV Rheinland Egypt Limited	ISO 9001 OHSAS18001 ISO 50001 ISO 22000 ISO 27001 ISO 14001	DAKKS, EGAC DAKKS, EGAC DAKKS DAKKS, EGAC DAKKS DAKKS, EGAC	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.egtuv.com
CENTERIOR	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	JAS-ANZ, COFRAC JAS-ANZ JAS-ANZ, COFRAC JAS-ANZ	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.sai-global.com/

Name of CB	Certification	Accreditation Body	Related other Services
BV Quality Certification Private LTD	ISO 9001 ISO 14001 OHSAS 18001 ISO 22001	UKAS, EGAC UKAS, EGAC EGAC EGAC	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.bureauveritas.com/
QMS CS EGYPT	ISO 9001 ISO 18001	JAZ-ANZ JAZ-ANZ	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.qms.com.au
Lloyd's Register EGYPT	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	UKAS UKAS UKAS UKAS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.lr.org/en
BSI MANAGEMENT SYSTEMS - EGYPT	ISO 9001 OHSAS18001 ISO 14001 ISO 13485	ANAB ANAB ANAB UKAS	No other services are provided. For more information you can visit: http://www.bsiegypt.com
FQC MIDDEL EAST	ISO 9001 OHSAS18001 ISO 14001	ESYD ESYD ESYD	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.fqcmiddleeast.com
DNV GL – EGYPT	ISO 9001 ISO 14001	UKAS UKAS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.dnv.com

Name of CB	Certification	Accreditation Body	Related other Services
TÜV NORD EGYPT FOR INSPECTION AND CERTIFICATION SERVICES	ISO 9001 OHSAS 50001 ISO 22000 ISO 27001 ISO 14001 ISO 13485 HACCP	DAKKS, EGAC DAKKS, EGAC ESYD ESYD, DAKKS DAKKS DAKKS EGAC	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.tuv-nord.com
ROYAL CERT EGYPT	ISO 9001 ISO 22000 ISO 14001	DAKKS DAKKS DAKKS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.royalcerteg.com
TQCSI – EGYPT	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	JAS-ANS JAS-ANS JAS-ANS JAS-ANS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.tqcsi.com
OSS MIDDLE EAST	ISO 9001 OHSAS 18001 ISO 22000 ISO 27001 ISO 14001	JAS-ANS JAS-ANS JAS-ANS JAS-ANS JAS-ANS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.ossmideast.com
CERES-EGYPT	ISO 9001 OHSAS 18001 ISO 22000 ISO 14001 ISO 13485	ESYD ESYD ESYD ESYD ESYD	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.cerescert.com
Brilliant Certification	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	JAS-ANS ACCREDIA- EGAC JAS-ANS, EGAC ACCREDIA JAS-ANS-EGAC	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.qatechniceg.com

Name of CB	Certification	Accreditation Body	Related other Services
TCL MIDDEL EAST	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	JAS-ANZ JAS-ANZ JAS-ANZ JAS-ANZ	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.tclcertification.com http://www.tcmel.com
QAS MIDDEL EAST	ISO 9001 OHSAS18001 ISO 14001	JAS-ANZ JAS-ANZ JAS-ANZ	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.qascert.com
INTERNATIONAL STANDARDS CERTIFICATIONS ISC - EGYPT	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	JAS-ANZ JAS-ANZ JAS-ANZ JAS-ANZ	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.isc-egypt.org
DAS Egypt	ISO 9001 OHSAS18001	UKAS UKAS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.dascertification.co.uk/blog/worldwide-offices/das-egypt
UNITED FOR CERTIFICATION SERVICE (U.C.S)	ISO 9001 OHSAS18001 ISO 22000 ISO 14001	JAS-ANZ, DAKKS JAS-ANZ JAS-ANZ JAS-ANZ	No other services are provided. For more information you can visit: http://www.ucs-egy.com
ACERTA MIDDLE EAST LTD	ISO 9001	ESYD ATS	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.acertaegypt.com

Name of CB	Certification	Accreditation Body	Related other Services
CERTIND MIDDLE EAST	ISO 9001 OHSAS18001 ISO 22000 ISO 14001 OHSAS18001 ISO 22000 ISO 14001 ISO 14001 OHSAS 18001 ISO 16949 ISO 22000 ISO 27001 ISO 14001	EGAC EGAC EGAC EGAC JAS-ANZ TURKAK-JAS-ANZ TURKAK-JAS-ANZ DAC Rva ATF Rva Rva Rva	Lead audit trainings; Internal Auditor's training on different management systems and other training courses and certification services. For more information you can visit: http://www.certindme.com
Indraprastha Certification Pvt. Ltd	ISO 9001	EGAC	No other services are provided. For more information you can visit: http://www.isplcert.com

Inspection Services

Public Sector

General Organization for Export and Import Control - GOEIC

GOEIC is an executive body of the Ministry of Trade, Industry and Investment and works as a conformity assessment services provider. GOEIC's mandate is customer protection linked to imports and exports.

Imported and exported goods control is based on Regulation 770/2005 following the Law no.118/1975. Article 69 of Ministerial Decree 770/2005 states that products listed in Annex 8 of the same Decree constitute the scope of GOEIC's inspection services. If relevant mandatory standards have been issued by the Egyptian authorities, e.g. ES 608/2014 Gas cylinders – Specifications and testing of LPG cylinder valves – Manually operated, then GOEIC must conduct the inspection in accordance with those standards. All Egyptian mandatory standards are available on this link: http://www.eos.org.eg/en /standards.

However, GOEIC's inspections could be based on standards from other countries if there are no relevant Egyptian mandatory standards - basically ISO standards.

When products are imported into Egypt, they need to undergo verification of conformity. Products are held either at customs compounds or sealed on the premises of the importer, until testing is completed.

The importer can either chose to have the tests performed by GOEIC, which may take several weeks, or have the verification performed by a private body, recognised by GOEIC, in which case it can be done in 2-3 days.

Private Sector Inspection Body

The private inspection bodies recognised by GOEIC are:

- COTECNA Inspection Egypt.
- SGS Egypt Ltd.
- Intertek International Ltd.
- Bureau Veritas
- ViTSAN / Applus / EGESCOQuality Group
- China Certification & Inspection Group (CCIC)
- TUV Rheinland Egypt Limited
- TÜV SÜD China
- Galileo Inspectorate – EGESCO
- GEO-CHEM
- ALBERK QA International Technical Control and Certification Corp
- Vkan Certification & Testing Co., Ltd. (CVC)
- Viglienzone Adriatica S.r.l., Italy
- OCA Egypt

More information about above mentioned private inspection bodies recognised by GOEIC can be found on the link http://www.goeic.gov.eg/en. Some specific information about private inspection bodies is reported below. The info and list is not exhaustive.

Table 4: Private Inspection Bodies

Companies	Major Sector/Discipline	Field of Inspection
COTECNA Inspection Egypt	Food and Agriculture	Bulk Wheat
Intertek Testing Services Caleb Brett Egypt	Food and Agriculture	Vegetable Oil surveys
Quality Services Group (S.A.E)	New pipes Seamless Steel Pipe Seamless Carbon Steel Pipe	Wall thickness and dimensional measurements of new pipes, Seamless steel pipe, Seamless Carbon steel Pipe for high temperature service
SGS Egypt Ltd - (CTS) Unit for Inspection Services	Textile and garments	Garments
SGS Egypt Ltd - Agricultural Services Department	Food and Agriculture	Bulk wheat, Pre-packed rice, Vegetable oils, Bulk raw sugar
SGS Egypt Ltd - Mineral Services Department	Minerals	Bagged cement, Bulk solid fertilizers, Silica sand, Ferrosilicon

Metrology

The National Institute for Standards (Scientific and Industrial Metrology)

In 1962, Egypt joined the Metre Convention and became a member state of the Bureau International des Poids et Mesures (BIPM).

In 1963, the industrialization program in Egypt was in full swing. The need for a high-level metrology institute was quite evident. A Presidential Decree was issued establishing the National Institute for Standards (NIS), to become responsible for realizing and disseminating the basic units of measurements and to promote the competitiveness of the Egyptian industry by advancing measurement standards and technologies in ways that enhance performance of the national economy and secure a better quality of life for all.

The National Institute for Standards (NIS) is a government-owned research institute under the umbrella of the Egyptian Ministry of State for Scientific Research. It is the national metrology institute of the Arab Republic of Egypt and the custodian of traceable standards to the International System of units (SI). NIS is the largest metrology body in the Middle East and Africa, and the sole representative of Egypt at the BIPM.

NIS was established in 1963. Since its establishment, the institute has developed and maintained the national measurement standards and disseminated the units and scales to economy at the highest metrological level. Those national measurement standards underpin an infrastructure of traceability throughout Egypt and the world to ensure accuracy and consistency of measurements.

Through six scientific metrological divisions that comprise twenty scientific laboratories, NIS is able to deliver high level calibration and measurements services and technical consultancies in many sectors such as trade and industry, health and safety, environment, agriculture, etc.

One of the main roles of NIS is to conduct research activities aiming at finding new measurement techniques so as to meet the Egyptian demands and support different organizations across the country and the region in making the best use of measurements.

Since 2000, NIS is a signatory to the CIPM Mutual Recognition Arrangement (CIPM MRA). The arrangement represents a framework, through which national metrology institutes demonstrate the international equivalence of their measurement standards and calibration and measurement certificates they issue. The outcomes of the CIPM MRA are the internationally recognised Calibration and Measurement Capabilities (CMC) of the participating institutes. This is the proof of high quality work in a given field. At the beginning of 2017, NIS has published 36 CMCs in the publicly available CIPM MRA database called KCDB, see www.kcdb.org

The services offered by NIS include the following:

C. Calibration and Measurement (Industrial Metrology)

The table below shows calibration, measurement and testing services provided for secondary calibration bodies and industries. The information is collected as of March 2017.

Table 5: Calibration services for secondary calibration bodies and industries[4]

1. Acoustic and Vibration	
Absorption coefficient measurements	Accelerometer calibration
Reference coefficient measurements	Piston phone calibration
Airborne insulation	Calibrator calibration
Impact insulation	Vibration meter calibration

[4] All laboratories are accredited by EGAC except Photometry Lab. Most of them participate on CMCs managed by CIPM

Sound intensity measurements	Loudspeaker calibration
Acoustic measurements	Reference Sound Source calibration
Noise measurements	Audiometer calibration
Vibration measurements	Hearing protector measurements
Sound Level Meter calibration	Telephone calibration
Microphone calibration	Hearing Aids calibration

2. Ultrasonic	
Calibration of ultrasonic flaw detector	Calibration of ultrasonic transducers (normal, angle and TR)
Calibration of ultrasonic standard reference blocks (V1, V2 and step)	Calibration of ultrasonic thickness gauge

3. Mass, Density and Pressure	
Pressure Balances	Safety Valves (Relief Valves)
Pressure Gauges	Calibration of all types of balances up to 5 tons
Vacuum Gauges	Calibration of all classes of weights up to 50 kg
Pressure Transducers	Calibration of hydrometers in the range from 0.68 – 1.8 g/cm^3
Pressure Transmitters	Calibration of volumetric glassware and vessels (pipettes, burettes, cylinders, flasks, large tank, etc.)
Pressure Vessels	

4. Force, Torque and Hardness	
Calibration of reference standards load cells, calibration loops and boxes	Calibration of hardness testers
Calibration of torque transducers	Calibration of systems used to apply static loads such as jacks
Calibration of torque wrenches	Calibration of concrete testing machines
Calibration of impact machines	Calibration of universal tension and compression testing machines

5. Ionizing Radiation	
EPR technique is mainly used for measuring intermediate and high dose ranging from 10 to 104Gy with uncertainty ±2%.	Calibration of radioactivity measurement equipment with uncertainty ± 1.5 %
Calibration of instruments (Survey meter, Pocket dosimeter, Radiation alarm) in the radiation protection level by Co-60, Cs-137 and X-ray	Environmental survey and natural radioactivity measurements in different materials with uncertainty ± 1.5 %
Estimation the efficiency of new shielding material for different type of radiation	Assessment of environmental dose to the public in order to know health risks with uncertainty ± 1.5 %
Personal dosimetry services (TLD)	Calibration of radon measuring devices and radon sources with uncertainty as the following (1- Passive techniques @ ±10%, 2- Active techniques < ± 1%)
Calibration of radiation sources (closed), therapy level machines (Co-60), X- ray machines (industrial), X- ray fluoroscopy (medical) with uncertainty range (± 2 x 10-4 % to ± 1.7%)	Calibration and type testing of area survey instruments and personal dosimeters in a range of well–defined
Calibration for instruments in the therapy level (Chambers and its Electrometers) with uncertainty range (± 2 x 10-4 % to ± 1.7%)	

6. Temperature, Humidity, viscosity	
Temperature measurement	Calibration of thermocouples
Calibration of viscosity and calibration of viscometers	Calibration of liquid in glass thermometer
Calibration of hydrometers	Material Thermal properties
Calibration of Ovens	

7. Electrical quantities (voltage and resistance)	
Electrical measuring instruments	Standard resistors
Calibrators	Standard capacitors
Digital multimeters	Standard inductors and other types of electrical sources
Thermal voltage converters	

8. High voltage	
Calibration of AC H.V. Sources and Measuring Instruments up to 200 [kV] (50 Hz) (The system is now under upgrade to reach 300 [kV])	Calibration of PD Calibrators up to 2000 [pC]
Calibration of DC H.V. Sources and Measuring Instruments up to 140 [kV]	Calibration of Insulation Resistance Measuring Instruments up to 600 [GΩ] (for DC voltage source up to 5000 [V])
Testing of Transformer Oil	Insulation AC Breakdown Test up to 100 [kV] (50 Hz)
Calibration of Oil Testers up to 60 [kV]	Measuring Capacitance and Dissipation Factor (C and tan δ) of Insulation Samples
Calibration of Current Sources up to 3000 [A]	Calibration of C and tan δ Measuring Instruments
Calibration of AC Current Measuring Instruments up to 5000 [A] (50 Hz)	Calibration of Current Transformers (CT)
Calibration of Current measuring Clamp meters up to 1000 [A] DC and AC (10 Hz ~ 100 kHz)	Calibration of Potential Transformers (PT)

9. Microwave frequencies and power	
Power measurement rang from 1mw to 10mw and from 100MHz to 18 GHz	Elect. field measurement range from:3-300 V/M Freq. 0.5 MHz to 5 GHZ
Microwave circuit range from 100MHz to 18GHz	EM radiation safety levels

10. Time and RF frequency	
Frequency standards oscillators (Cs, Rb, Qz)	Oscilloscopes, Spectrum Analysers
Signal generators	Tachometers Testers, Tachometers, RPM
Frequency counters	Medical equipment (time/frequency dependant)
Timers and stopwatches	

11. Fire and Explosion	
Limiting oxygen index of different materials and products	Thermal stability of different materials and products
Rate of burning different materials and products	Calibration of pH meters

Smoke density of different materials and products	Calibration of oxygen gas detectors
Flammability properties of different materials and products	

12. Textile	
Air velocity flow meters	FTIR
Liquid conductivity meter	Flame photometer
Turbidity meter	COD and BOD equipment
Kjeldahl	Dissolution
Karl Fisher	Washing and laundry machines
Gas chromatography	Crockmeters
Atomic absorption	Leather testing instruments
Laminar flow	

13. Polymer	
Hardness Shore – A	Fatigue Test
Hardness Shore – D	Impact Test
Tensile Load Cells	Paper Expansion
Hardness Test – Shore A	Mixing
Hardness Test – Shore D	Press
Density	Heat Distortion and Softening Point
Viscosity	Tensile and Elongation
Rheometric measurements	Bending, Tear, Compression, Peal & Pull out Adhesion
Abrasion Test	Plasticity MFI (melt flow index)
Resilience Test	

14. Photometry (lamp, light sources)	
Calibration of all types of spectrophotometers	Lamp testing for efficiencies, ageing characteristics, colour rendering factor, etc.

Calibration of all types of colorimeters, including lovibond	Calibration of Luminous flux and luminous Intensity standard lamps
Calibration of all types of Gloss meters and hazemeters	Calibration of all types of illuminance meters (lux meters)
Calibration of all types of Optical densitometers	Calibration of all types of luminous Intensity and luminance measuring instruments
Calibration of all types of Whiteness and Yellowness measuring instruments (such as Flour Grader)	Testes and measurements of all colour parameters (such as, (X,Y,Z,), (L*, a*,b*), ΔE) of the teeth samples for dentistry, coloured samples for point companies, and paper companies
Calibration of all types of Colour scales measuring instruments (i.e. Gardner Scale, Saybolt Scale, etc.)	Measurements of Transmittance, Reflectance and absorbance of all types of samples (such as, solid state and liquid samples) in the range 200 - 3000 nm
Calibration and preparation of standard lamps	

15. Optical detectors and environment monitoring	
Measurement and calibration of Optical Sources	Vicarious calibration support
Measurement and calibration of Optical Detectors	

16. Laser, fibre optics, interferometers	
Accurate frequency measurement of He-Ne lasers at 633 nm (secondary length standards)	OTDR calibration (loss and distance scale)
Displacement interferometer calibration (wavelength)	Accurate wavelength measurement for DWDM lasers
Wavelength measurements covering wavelength ranges from 400 -1800 nm with a resolution down to ±0.0002 nm	Optical spectrum analyser (OSA) calibration
High resolution laser spectral analysis	Power meter calibration
Detection of gas traces using tuneable lasers	Chromatic dispersion measurement
Beam profile measurements	Polarization mode dispersion measurement
CW and Pulsed laser power and energy measurements	

17. Length gauges (optically)	
Calibration of Short Reference Gauge blocks of Grade (00, k) in the range of (0.5mm to 200 mm)	Calibration of glass rulers and graduated lenses
Calibration of Short Gauge blocks up to 10 cm	Calibration of polarimeters, polariscopes, and standard quartz pieces
Calibration of line standards	

18. Surface, angles, length gauges (mechanical)	
Contact and non-contact surface characterization	Linear and areas dimensions
Surface topography, texture and roughness metrology	Angle metrology

Thin films and nanometrology investigation	Measurements of fixtures, gauges, and moulds in the industrial Applications, and calibration of dimensional hand instruments
Coordinate measuring machines (CMM), CNC, and operation machines	Design, manufacturing and measurement of fine mechanical elements
Forms and shapes, from errors, complex geometry	

Moreover, NIS produces number of certified reference materials, used for calibration of different types of measuring instruments, namely in chemistry.

D. Technical consultancy and training courses

The National Institute for Standards (NIS) provides a wide range of consultancy and training services through recruitment of consultants from NIS and other institutions, with research and industrial expertise. This unit is the total quality consultancy projecting expertise in the ISO 9000, 14000, 17025.

NIS also provides consultancy and training services in all technical fields related to measurement on:

- Mass and Force
- Thermometry and Ionizing Radiation
- Electrical and Electronic Metrology

- Chemical Metrology
- Photometry and Radiometry
- Length and Precision Engineering

E. Proficiency Testing (PT)

The aim of the Proficiency Testing Unit is to support national and regional laboratories to determine the performance of their laboratories for specific tests or measurements. It is used to monitor laboratories' continuing performance and to comply with requirements of the national accreditation body EGAC with regard to laboratories daily quality control work. Work is carried out toward accreditation of many PT schemes. NIS PTs schemes include:

- Electrical measurement
- Mechanical measurement
- Physical measurement
- Chemical measurement
- Calibration

Administration of Assay and Weights (Legal Metrology)

The Ancient Egyptians were the constructors of the first civilization in the world. They had known weights and measures and issued acts limiting the specifications of the used instruments and tools. The first law of weights and measures control was issued on 28 April 1891. This control became more efficient in 1914 by the installation of branches for calibration and standardization in different provinces.

The ancients also knew gold, silver, and gemstones which were used by their Kings and Princes as ornaments and for decorations. The management of these precious metals is one of the greatest pride for all the Egyptians. In Egypt, until now, getting Nobel metal wares is an essential means for saving.

The first law of precious metal control was issued in 1847. It was voluntary and specified the legal fineness for gold and silver wares. The Assay Department was trans-located from the Egyptian Mint (EL Darby Khan) at Citadel to Beyt EL Kadi Square to be near the jewellery workshops located on Gouhar EL Kaeid Street.

In 1916, the compulsory law No. 19 replaced the voluntary one. In 1936, the Measures and Weights Department and the Assay Department were united to form the Administration of Assay and Weights. After Egypt became the member of the International Organization for Legal Metrology (OIML), this administration represents Egypt in OIML and currently participates in all OIML technical committees.

A. Assay Department

The Department is responsible for checking, analysing and stamping Gold, Silver, Platinum, Wares, Articles, etc., that are dealt with at the Noble Metal (N.M) Market, to prohibit cheating, counterfeiting and to secure the public benefits and rights. The N.M. wares are stamped with special stamps indicating fineness, metal mark and the date latter of the year. There are six branches of Assay Department in Egypt: Cairo, Alexandria, Tanta, Bani-Sweef, Huragada and Qena.

Legal fineness of wires for Gold:	Legal fineness of wires for Silver:	Legal fineness of wires for Platinum:
• 23,5 k 979 p/1000	• 925 p/1000	• 850 p/1000
• 21 k 875 p/1000	• 900 p/1000	
• 18 k 750 p/1000	• 850 p/1000	
• 14 k 583 p/1000	• 800 p/1000	
• 12 k 500 p/1000	• 600 p/1000	
• 9 k 375 p/1000		

The responsibilities of the Assay Department according to law No68/1979 for Noble Metals control are as follows:

- Checking and analysing Noble Metals to estimate its fine percentage in the alloy. The Noble Metal Works may be in the form of Wares (bracelets, earrings, pendants, bangs, candlesticks, etc.)
- Controlling all Exports and Imports of N.M. or Precious Stones Identifying and evaluating precious stones and other gems (diamonds, emeralds, rubies, sapphire, alexandrite, topaz, agates, etc.)
- Heeling Courts, Poise Stations in that field of service
- Purchasing and selling these materials for authorities, government, public sectors
- Training to all personnel in need for knowledge in the field of work (Arabians, Africans, Bank Employee's, etc.)
- Grantee License to Jewellery-craftsmen, assayer of N.M. at Jewellery Market and Experts for evaluation after passing special examination held at the Administration each according to its field of profession

The punishment Provisions of the Law are accomplishes by Qualified Inspectors who survey about 6000 jeweller’s stores and more than 2000 craftsmen' workshops.

F. Measures & Weights Department (55 branches)

Responsibilities according to its Law No. 69/1976 of Weight & Measure

- Offers services for different authorities and sectors, to ensure the required metrological properties of Weighting and, Measuring instruments used in trade .
- Testing, calibration and repair of those instruments (at its site or at the Administration) to ensure they meet their metrological requirements and confirming them by appropriate stamping.
- Strict control of the public market in that field of service by Qualified Inspectors Merchants all over Egypt, to secure consumers benefits and rights.
- Training for governmental personnel on repairing, maintaining balances and how to use them. Also training Arabians, Africans and others that require knowledge in that field of work.
- Grantee Licenses to Public Weights, Balances of craftsmen and jewellery, etc., after passing special examination held at the Administration, each according to its field of profession.

Other providers of industrial metrology services

The following tables 6 and 7 list other providers of industrial metrology services in the public and private sector.

Table 6: Providers of industrial metrology services in the Public Sector[5]

Organization / Laboratory	Laboratory capabilities or Specific tests
Egyptian Organization for Standardization & Quality (EOS)	
Industrial Metrology Department	Thermal dualities and platinum thermometers calibration laboratory Density and viscosity calibration laboratory Glass thermometers calibration laboratory Alternating current calibration laboratory Resistance calibration laboratory Direct current calibration laboratory Force, Torque and hardness calibration laboratory Lengths calibration laboratory

[5] Information collected as of March 2017.

Organization / Laboratory	Laboratory capabilities or Specific tests
	Pressure calibration laboratory Volume and follow calibration laboratory Mass and weights calibration laboratory Medical equipment calibration laboratory Miscellaneous calibration laboratory
Arab Organization for Industrialization (AOI)	
Arab British Dynamics Company (ABD) Calibration of Environmental Equipment	Calibration of Ambient & Stack Gas Analyzers (CH_4, C_3H_8, CO,CO_2, NO_x,SO_2) Calibration of Ozone Analyzers (O_3)
Aircraft Factory Company (ACF) - Calibration Laboratory	Calibration of DC resistance measuring equipment Calibration of DC Voltage measuring equipment Calibration of DC Current measuring equipment Calibration of AC Voltage measuring equipment Calibration of AC Voltage measuring equipment Calibration of AC Current measuring equipment Pressure Calibration of pressure gauge Dimension Calibration of steel gauge blocks Calibration of callipers
Arab British Engine Company (ABECO) - Calibration and Testing Laboratories	Calibration of oil pressure gauges (bourdon tube) Calibration of pneumatic gauge pressure indicators (bourdon tube)

Table 7: Providers of industrial metrology services in the Private Sector

Laboratory	Laboratory capabilities or Specific tests
AL-GEEL Medical Calibration Laboratory (permanent and on-site)	Calibration of Defibrillator Calibration of Electrical safety parameters Calibration of Electrosurgical Unit Calibration of Incubators Calibration of Pulse Oximeter Calibration of Ventilator

Laboratory	Laboratory capabilities or Specific tests
	Calibration of Infusion Pump Calibration of Anaesthesia Vaporizer Device Calibration of Non-Invasive Blood Pressure Instrument Calibration of Patient Monitor
Calibration Consulting Group (CCG) (permanent and on-site calibration)	**Electrical Calibration** Calibration of DC voltage meters Calibration of AC voltage meters at 400 Hz only Calibration of AC voltage meters at 50 Hz only Calibration of DC current meters Calibration of AC current meters at 400 Hz only Calibration of Resistance(4 wire measurements) Calibration of Resistance (2 wire measurements) Pressure and Vacuum Calibration of pressure & vacuum penumatic guage Calibration of hydraulic pressure gauge **Temperature Calibration** Calibration of dry-well / liquid bath Calibration of liquid-in-glass thermometer Calibration of Analogue / digital thermometer (Sensor and Readout) Calibration of temperature measuring devices for built-in temperature medium Calibration of digital temperature controller / indicator without sensor (Simulation) **Masses Calibration** Weights Class F2 according to OIML R111:2004 Weights class M1 according to OIML R111:2004 Weights class M1 according to OIML R111:2004 **Balance Calibration** Calibration of analytical balances (Class II) Calibration of electronic balances (Class II) **Dimension Calibration** Calibration of external micrometers Calibration of digital, dial and Vernier calipers

Laboratory	Laboratory capabilities or Specific tests
Integrated Calibration Services (ICS)	**Pressure Calibration** Calibration of pneumatic gauge (permanent) Calibration of fluid gauge(permanent) Calibration of pneumatic transmitter (permanent) Calibration of pneumatic transmitter (on-site) Calibration of pneumatic gauge (on-site) Calibration of fluid gauge (on-site) **Temperature Calibration** Calibration of thermocouples with indicating system (permanent) Calibration of RTD (Permanent) Calibration of RTD with indicating system(permanent) Calibration of thermocouple temperature indicators with simulation, without sensors (permanent) Calibration of RTD temperature indicators with simulation, without sensors (permanent) Calibration of RTD with indicating system (on-site) Calibration of RTD (on-site) Calibration of RTD with indicating system (on-site) Calibration of thermocouple indicators with simulation, without sensor (on-site) Calibration of ovens, incubators, refrigerators, autoclaves (on-site)

Accreditation

Egyptian Accreditation Council (EGAC)

The Egyptian Accreditation Council (EGAC) is recognized by the Presidential Decree number 312/1996 as the sole national body for the assessment and accreditation of conformity assessment bodies performing testing/calibration laboratories, inspection and certification of products and systems as well as personnel.

EGAC is headed by the Minister of Trade and Industry and governed by a board of 14 members, representing all stakeholders and concerned bodies. It operates in accordance with IAF & ILAC guidelines and ISO/IEC 17011: 2004. It is a full member of ILAC

(MRA signatories). It is an IAF member and signatories. Its main scope is the management system certification - ISO/IEC 17021 and its sub scope level 5 ISO 9001 and ISO 14001.

It has membership in the Arab Accreditation (ARAC) and was subjected to a peer assessment. It is an arrangement Member of AFRAC. It has been peer evaluated under applicable AFRAC procedures and found to comply by the MRA Council with the requirement for admission as a signatory to the AFRAC MRA.

A. Scope

EGAC accreditation is provided to the conformity assessment bodies to meet the requirements of the international standards.

- Testing and calibration including sampling according to ISO/IEC 17025

  Accredited bodies and their scope of accreditation are listed on the EGAC website links

  For testing:
  (http://www.egac.gov.eg/certificates.php?type=testing_lab&status=Accredited) and

  For calibration:
  (http://www.egac.gov.eg/certificates.php?type=calibration_lab&status=Accredited)

- Quality Systems Certification to ISO/IEC 17021

  (Accredited bodies and its scope of accreditation are listed on the EGAC website Link:(http://www.egac.gov.eg/certificates.php?type=cer_body&status=Accredited)

- Product certification according to ISO/IEC17065 (No body was accredited yet)

- Inspection bodies according to ISO/IEC 17020

  (Accredited bodies and its scope of accreditation are listed on the EGAC website link: http://www.egac.gov.eg/certificates.php?type=ins_body&status=Accredited)

B. Responsibilities

- Set up a system for assessment of conformity assessment bodies, and issue accreditation certificates.

- Grant, suspend or withdraw accreditation for conformity assessment bodies. Carry out continuous surveillance of the accredited bodies.

- Contribute to upgrading the quality of services of conformity assessment bodies according to the international criteria.

- Encourage the exchange of experience among different accreditation bodies.

- Support mutual recognition between conformity assessment bodies working in Egypt and abroad and conclude agreements for this purpose.

- Represent the state abroad in accreditation activities and cooperate with corresponding bodies.

SPS Policy or Strategy

There is no one single organization responsible for the supervision and application of the different SPS activities in Egypt. Although number of national organizations and research institutes are involved for the application of SPS measures, there is no specific national SPS policy and strategy that supervising the SPS institutions, allocating their roles, responsibilities and budgets.

Institutions involved in SPS activities and in charge of the enforcement of different SPS measures are:

- Ministry of Agriculture and Land Reclamation and its subordinate entities are responsible for enforcing food safety, plant health and phytosanitary measures and participate on some market surveillances activities,
- Ministry of Health and Population and its subordinate entities are responsible for enforcing food safety, animal health and participate on some market surveillances activities
- Ministry of Supply and Internal Trade are responsible for market surveillances activities. Food safety is handled by a number of laws and ministerial and Presidential Decrees as mentioned below.

A Food Safety Agency in Egypt is still under construction to develop a national food safety policy, systems and regulations and the food safety law is under discussion at the Parliament.

Food Safety

In Egypt food safety and control functions are multisectoral, however the main role in that area is carried out by the Ministry of Health and Population, Ministry of Agriculture and Land Reclamation, Ministry of Internal Trade and Supply and Ministry of Trade and Industry, Different roles and responsibilities are drawn by a number of laws, Regulations and standards.

Food safety is handled by a number of laws and ministerial and Presidential Decrees as mentioned below. Food safety agency in Egypt is still under construction to reformulate the national food safety systems and regulations.

To support demonstration of compliance with Regulations producers and traders food labs exists at EOS, GOEIC, chemical administration Lab and below mentioned labs that belong to different SPS infrastructure players on Egypt.

Egypt acquired the membership of the International Committee of the Codex since 1972 and for that the Ministerial Decree no. 586/1973 was issued for the formation of the

Egyptian Committee for Codex, to be corresponding to the International Committee for the "CODEX" affiliated to the Food and Agriculture Organization of the United Nations (FAO) and the World Health Organization (WHO) under the chairmanship of the Egyptian Organization for Standardization & Quality (EOS).

Because of the rapid and successive developments at the international levels, and in belief of the importance of keeping up with what is new and modern in the food industry and confirming on production quality and promoting it to the required levels of developments, the Ministerial Decree no. 59/1988 was issued on 13.1.1988. The Decree reformed the Egyptian Committee of Codex to have on its membership new experts from active bodies to increase the efficiency and effectiveness of the Committee.

The formation of the Egyptian Committee for Codex represent both public sector and the private; it includes relevant Ministries (Health / Agriculture / Industry and Commerce / Electricity and Energy), research centres, universities, regulators and consumer protection associations, the Chamber of Food Industries and Trade Agreement Sector, companies for food manufacturing from the public and the private sectors along with industrialists with experience and competence in the field of food processing

List of laws and decrees related to food safety in Egypt

- Law no 48 for 1941 of preventive fraud and deception.
- Law no 10 for 1966 regarding food control and regulate circulation thereof.
- Decree no 96 for 1967 regarding the health cleaning measured required to be taken in places of circulation of foodstuff.
- Decree no 223 for 1969, amending article no (3) of decree no 96 for 1967 regarding the health cleaning measured required to be taken in places of food stuff circulation.
- Decree no 171 for 1971, amending some provisions of decree no. 96 for 1967 regarding the health cleaning measured required to be taken in places of circulation of foodstuff.
- Decree no 97 of 1967 regarding the specification required for the persons dealing in food circulation to ascertain that they are free of any infectious diseases and the procedures required for their examination.
- Law no 30 for 1976, amending some provisions of law no 10 for 1966 regarding food control and regulate circulation thereof.
- Decree no 530 for 1979 regarding food preparation addition to the preparation, which are cleared in law no 30 for 1976.
- Law no 106 for 1980, amending some provision of law no 48 for 1941 of preventive fraud and deception and Law no 10 for 1966 regarding food control and regulate circulation thereof.

- Law no 281 for 1994 amending some provision law no 48 for 1941 of preventive fraud and deception.
- Decree of cabinet no 291 for 1986 regarding control regulating for imported Food goods
- Health Ministers decree no. 349 for 1986, regarding the formation a committee for external examination of imported consignment and organization the work process.
- Health Ministers decree no 350 for 1986, regarding the formation a committee for laboratory examinations of imported consignment and organization the work process.
- Health Minister decree no 351 for 1986 regarding the formation a committee to review the complaints raised against the decree rejection the consignments of the imported foodstuff.
- Decree no 386 for 1959 regarding preventively measures for toxics control.
- Law no 684 for 1954 regarding bread organizing and circulation.
- Decree on 2 April 1953 regarding the regulating of meat trading and products thereof, as amended on 17 October 1953 and 26 October 1955.
- Presidential decree no 1604 for 1967, amending some provisions of decree on 2-April –1953 regarding the regulating of meat trading and products there of Law no 685 for 194 regarding the regulating of meat trading and products thereof. Local administration ministers decree no 2 for 1667 to make provisions of law no. 685 for 1945 regarding the regulating of meat trading in all governorates is Validity and effective.
- Presidential decree no 798 for 1957 regarding the vessels that are used for foodstuff.
- Health minister decree no 679 for 1983 regarding the vessels that are used for foodstuff.
- Presidential decree no 33 for 1957 regarding the street venders.
- Housing & Common Utilities Minister Decrees no 635 for 1968 regarding specifications and measures required to be taken in cars, vessels and boxes that the street venders use it for sale of beverages and food stuff.
- Decree no 707 for 1968 regarding the foodstuff and beverages that are considered prohibited for the street venders for sale & the specifications required in their clothes. 28. Law no 132 for 1950 regarding milk and products thereof.
- Health Minister decree on 21 June 1952, as amended on 22 June 1953, 12 April 1956, 24 December 1956, 27 February 1958, 9 August 1960 regarding specifications and standards of milk products.
- Health minister decree on 27 April 1945 regarding milk bottles transfer, Circulation, distinguish.

- Health Minister decree on 10 may 1945 regarding the measures and specifications required to be taken in milk pasteurization laboratories.
- Health Minister decree no 172 for 1969 regarding amendment of some Provisions of the issued decree on 21 June 1952 regarding the specifications and Standards of milk products.
- Decree on 21 June 1952 regarding the specifications and standards of milk products.
- Health Minister decree no 297 for 1975 regarding amendment of some provisions of the issued decree on 21 June 1952 regarding the specifications and standards of milk products.
- Decree no 173 for 1976 as amendment some provisions of health minister decree on 27 April 1945 regarding milk bottles transfer, circulation, distinguish.
- Health Minister decree no 372 for 1978, amending some decree provisions on 21 June 1952 regarding, the specifications and standards of milk products.
- Health Minister decree no 488 for 1978 to amend some decree provisions on 21 June 1952 regarding, the specifications and standards of milk products.
- Law no 257 for 1956 regarding the regulating frozen products industry and Sale.
- Health Ministry decree on 17 March 1958 regarding the regulating frozen products industry and sale.
- Health Minister decree no 260 for 1971 to amend some decrees provisions, issued on 17 March 1958 regarding the regulating frozen products industry and sale.
- Presidential decree no 880 for 1960 regarding the specifications required in Health Minister decree no 362 for 1984 regarding frozen products transfer.
- Health Minister decree no 164 for 1982 regarding the rejection consignments as amended on by decree no 461 for 1984.
- Health Minister decrees no 227 for 1999 regarding the specifications of antioxidants which are allowed to add to foodstuff.
- Presidential decree no 106 for 2000 regarding the facilities of control and examination measures on imported and exported foodstuff goods.
- Economy and trading Minister decrees no 524 for 2000 regarding external examination and take samples.
- Housing and Health Minister decree no 104 for 2000.
- Housing and Health Minister decree no 73 for 2001 regarding the vessels, bottles, and covers, which are used for all foodstuff products.

Ministry of Health and Population

The main roles in the area of food safety and control are carried out by the Ministry of Health and Population through its responsible bodies:

- Food safety and control administration
- Institute of nutrition
- Public health laboratories

As far as the basic characteristic are concerned the activities of the Ministry of Health and population in that area could be mentioned in the following:

A. Food Inspectors

In Egypt there are nearly 500 food inspectors belonging to Ministry of Health and population, their main activities are.

- Inspection of food, establishment food handlers and collect samples from different areas to be submitted to the health laboratories for analysis according to the standard and different regulations, then legal action is going to be taken in case of violation.
- There is at least one food inspector in each health office or health unit also there is a food control office in each port (sea-air-etc.).

B. Nutrition Institute

The nutrition institute is responsible for the registration of the foods for special dietary us these include infant and follow-up formulae, wee control foods, herbal teas bottle water, etc.).

The quality and safety aspects of such foods are assessed through the different chemical, microbiological and biological investigations at the institute.

C. Central Health Laboratories (CHL) - Ministry of Health & Population

There is a well-organized laboratory network run by Ministry of Health and Population and technically supervised by CHL in Cairo which act as a reference directorate which supervising technically all laboratories of Ministry of Health and Population. The roles of CHL are as follows:

i. Preventive services, which include food, food handler and analysis

The safety and quality of food, and water supply are of great concern to the health authorities in Egypt to assure safe, sound, wholesome food and fit for human consumption

to protect the consumers from health risk, associated with contaminated or adulterated food. One of the most important role of the CHL is controlling of food whether locally produced or imported. It also analysis water samples to be sure that it is safe and complain with our Egyptian specification. CHL receive about 300.000 food samples for chemical, toxicological and microbiological analysis per year.

The food inspectors collect random samples from the locally produced as well as from the imported foods at the sea and airports, from food plants and local market and send the samples to the central Health Laboratories (CHL), labs at the ports of entry and the different labs in the 27 Governorates to be analyzed chemically, microbiologically and biologically according to Egyptian laws, regulation, standards and legislation and to be sure that it is fit for human consumption.

- Microbiological Analysis:
  - Microbiological examination to detect any contamination of food with pathogenic organisms such as Salmonella, Shigella, Staphylococcus aureus, Bacillus cereus, E.coli, Listeria, Campylobacter, V. parahaemolyticus, Brucella, Clostridium perfingens, Clostridium botulinum, yeast and moulds,
  - Total count of Mesophilic and psychotropic bacteria,
  - Detection of bacterial toxin in food such as Staphylococcus enterotoxins, Botulinum toxin and Mycotoxins.
- Chemical analysis:

For food additives, food colures, composition, chemical and physical quality, moisture, fat protein, chemical contaminants, such as lead and cadmium and other heavy metals according to the chemical standard specifications.

  - Organoleptic examination
  - Examination of tins, of canned food
  - Package and label Examinations for the following information which must be declared on a reading visible location on the label:
    - Name of the food, production date, expiration date
    - Chemical Composition, name of additives if used
- Toxicology department

The Laboratory is concerned with:

  - Quantitative detection of pesticide residues in food
  - Quantitative detection of fumigant in grain (e.g. Phostoxin)
  - Detection of toxic seeds in grains
  - Quantitative detection of polychlorinated biphenyl "PCB's" in food

- Detection of other toxic substance in food and water
- Detection and assay of narcotics in foodstuffs
- Quantitative detection of Polychlorinated Biphenyls,Poly aromatic hydrocarbon, Mono chloro propandodiol and Binsopirin

ii. Water and waste water department

The central public health laboratories:

- Participate in the higher water committee to put the standard specification and parameters, which regulates the analysis of all types of drinking water & waste water and the substances related.
- Follow up of drinking water treatment plants and wastewater treatment plants.
- Monitoring of pollution and determination of the efficiency of water planet treatment through the analysis of water samples intakes and effluents.
- Analysis of industrial waste and sewage liquids according to parameters of laws.
- Analysis of substances which are used in the water treatment plants (Sand-Alum'solid -Liquid'-chlorine powder - activated carbon).
- Analysis of bottled mineral and natural water.
- Analysis of beaches and swimming pools water samples.

Ministry of Agriculture and Land Reclamation

The main job at the area of food safety and control carried out through:

A. Reference Laboratory for Safety Analysis Of Food of Animal Origin

Quality control hygienic status and safety evaluation of food (Locally produced, imported and for exportation) of animal origin (meat, milk, fish, table eggs and their products) as well as animal by - products (hide, hair, wool and their products) for human consumption and uses according to techniques and limits of local and international hygienic standards.

Monitoring, surveillance and diagnosis of causative agents (Bacterial, Viral, fungal and parasitic) of zoonotic diseases transmitted to human via food of animal origin, hygienic regulation.

Analysis, determination and safety evaluation of various residues such as veterinary drugs, food additives, hormones, pesticides, industrial chemical and heavy metals in food of animal origin.

The laboratory receives approximately 40000 samples annually.

B. Central Laboratory for Food & Feed

The Central Laboratory for Food & Feed (CLFF) is officially responsible for controlling all animal and poultry feed and feed ingredients. It controls all imported and locally produced feed.

Now, the quality of imported foodstuff is more strictly Representative samples of new as well as imported products are subjected to analysis before issuing certificates of registration. Advanced analytical methods and new methodologies are also used to enhance control and detection of foodstuff adulteration. It includes 17 departments covering different areas of inspection.

CLFF has updated feedstuff specifications in accordance with international standard together with specification organization.

C. General Organization for Veterinary Services (Ministry of Agriculture & Land Reclamation), See Animal Health clause

D. Biosafety committee

Egypt's national Biosafety Committee is the official body responsible for ensuring that biotechnology products are used safely facilitating access to modern biotechnology generated abroad.

Egypt's national Biosafety system was formally instituted by the Ministry of Agriculture and Land Reclamation in 1995.The system involves several ministries, organization, and, or government agencies involved with the importation, exportation, and local production of natural products.

Ministry of Industry and Trade

To which is affiliated the Egyptian Organization for Standardization and Quality (EOS) in which Egyptian standards for different food commodities are issued and the adoption of international standard is done. And to which is affiliated the general organization for import and export control which is now according to the presidential decrees is a co-ordinating body for all food control activities for import and export control at the ports between ministries of health, agriculture and other authorities.

Ministry of Internal Trade and Supply

It has the responsibility of inspecting food at the local market for compliance with the requirements of the law 281/94 (prevention of adulteration and fraud).

Animal Health

General Organization for Veterinary Services – Ministry of Agriculture and Land Reclamation

The General Organization for Veterinary Services (GOVS) was established under the decision of the President of the Arab Republic of Egypt No. 187 of 1984 with the aim to protect livestock and their products through the protection of this national wealth of communicable and infectious diseases, as well as treatment of this wealth of cases, the bar and sexually transmitted diseases and diseases that lead to the deterioration of productivity.

GOVS is designated as the National Veterinary Organization responsible for providing animal health and livestock regulatory services by the above mentioned decision of the President and providing its services through a number of Directorates covering all the republic governorates, veterinary laboratories, and animal check at each town. In addition, it also enforces Animal Slaughter House and Meat Inspection covering the entire Republic.

Egypt is member of the World Organization for Animal Health (OIE) and is actively involved in OIE Regional Commission for Africa and Middle East. GOVS has been designated as the focal point for different activities sanitary information management, aquatic animal diseases, wildlife animal diseases, veterinary products, animal welfare, animal production food safety and laboratories.

Activities provided by the general authority for veterinary services are as follows:

A. Preventive medicine

- Follow-up immunization plan provinces of the Republic of vaccine against epidemic diseases.
- Forms joint committees with the Research Institute of Animal Health in the examination of pathological cases.
- Participates in the diagnosis of pathological conditions and supervision of preventive measures.
- Provides the needs of the Republic of vaccines.
- Participates in international conferences to identify the epidemiological situation of other countries and ways of resistance.

B. Treatment of animals

- Follow-up treatment of animal diseases in veterinary units and veterinary hospitals.
- Follow up the fight against internal and external parasites.

C. Public health and common diseases

- Follow-up inspection committees at meat places display and sell their products and meat.
- Follow-up work of slaughtering massacres, and the detection of meat to ensure its suitability for human consumption.
- Follow-up work to strip the leather massacres, to reach the highest proportion of leather with a first class.
- Frightens against brucellosis and tuberculosis patients.
- Rabies control.

D. Services and guidance

- Identifies the various types of veterinary drugs and pesticides used in veterinary medicine.
- Participates with the Ministry of Health and Population in the committees of registration of veterinary medicine.
- Pricing of imported and domestic veterinary products.
- Guidance on veterinary extension and carries out awareness campaigns for citizens.
- Activates the cattle insurance work and promotes cattle insurance cards.
- Numbering and registration of cattle.
- Inventory and record data of poultry farms.

E. Veterinary quarantine

- Takes necessary measures to provide the needs of the Egyptian market of imported meat and live calves for immediate slaughter and fattening calves and calves extortionist.
- Issues importing approvals, for the importers of meat for quantities specified by the companies.
- Formulates veterinary technical committees for supervision and inspection of imported meat abroad.
- Inspects and approves massacres in the process of slaughter annually (approved by the Board of Directors) and ensures slaughtering in accordance with Islamic law.
- Approves the establishment of quarantine at the border to house live calves imported.

Plant Health

Central Administration of Plant Quarantine – Ministry of Agriculture and Land Reclamation

In 1902, the pink cotton boll worm entered into Egypt with cotton consignment imported from India for processing. Egypt started to apply the concept of plant quarantine in 1904, by issuing the law no.10 which followed by laws no. 21 in 1906 and no.1 in 1916. The law no.1 of 1916 prohibited the importation of cotton plants and plant parts, and the entry of harmful organisms (insects, bacteria and fungi) into Egypt.

The agriculture law no. 53 of 1966 and its amendments, is the general law by which all agricultural fields, including plant quarantine, are regulated. In 2001, plant quarantine decisions have been updated through the ministerial decree no. 3007 to be conformed to the international phytosanitary measures.

Egypt participates actively on the International Plant Protection Convention (IPPC) which is a multilateral treaty for international cooperation in plant protection. The Convention makes provision for the application of measures by governments to protect their plant resources from harmful pests (phytosanitary measures) which may be introduced through international trade. The IPPC is deposited with the Director-General of the FAO and is administered through the IPPC Secretariat located in FAO's Plant Protection Service. The IPPC was first adopted in 1951 and has been amended twice, most recently in 1997. The Central Administration of Plant Quarantine (CAPQ) is the focal point of Egypt on IPPC; CAPQ participates effectively on the convention steering committee, Standards and general assembly which was hosted on 2006 in Cairo.

A. Legal frame work of plant health

- Agriculture Law no. 53/1966 and its amendments.
- Egyptian Plant Quarantine legislation (Decree No. 3007/2001) and its amendments.
- Decisions of Plant Quarantine Committee; Provisions and standards of relevant international Agreements (SPS & IPPC).
- Phytosanitary requirements of trading partners, bilateral, regional and multilateral agreements.

B. Plant health regulatory in Egypt

- The Central Administration of Plant Quarantine.
- Plant quarantine committee (includes all relevant research institutes and central labs).
- The Minister (based on the advice of the Plant Quarantine Committee).

- Joint ministerial decrees with the Ministry of Foreign Trade, Industry and SMEs.
- Ad Hoc committees for specific product (e.g. seed potatoes).

There are 700 inspectors and supportive units working on five general regional administrations; distributed in 37 check points (seaports, airports and land borders) and numerous packing stations. The administration established the Phytosanitary Unit in 2005 to be its connection with the world.

The WTO SPS Agreement gives countries the right to take measures to protect animal, plant and human health, and those measures differ from one country to another, from one product to another, and from one case to another. Currently, Egypt is considered to be one of the developing countries facing serious problems with the EU, as a result of a restrictive measure it applies on imports of potatoes from Egypt because of brown rot.

The Egypt's notifications on WTO SPS are accessible from the Ministry of Trade and Industry's website at http://www.tas.gov.eg/English/WTO/Notifications/notifications_eg.

C. Inspection activities

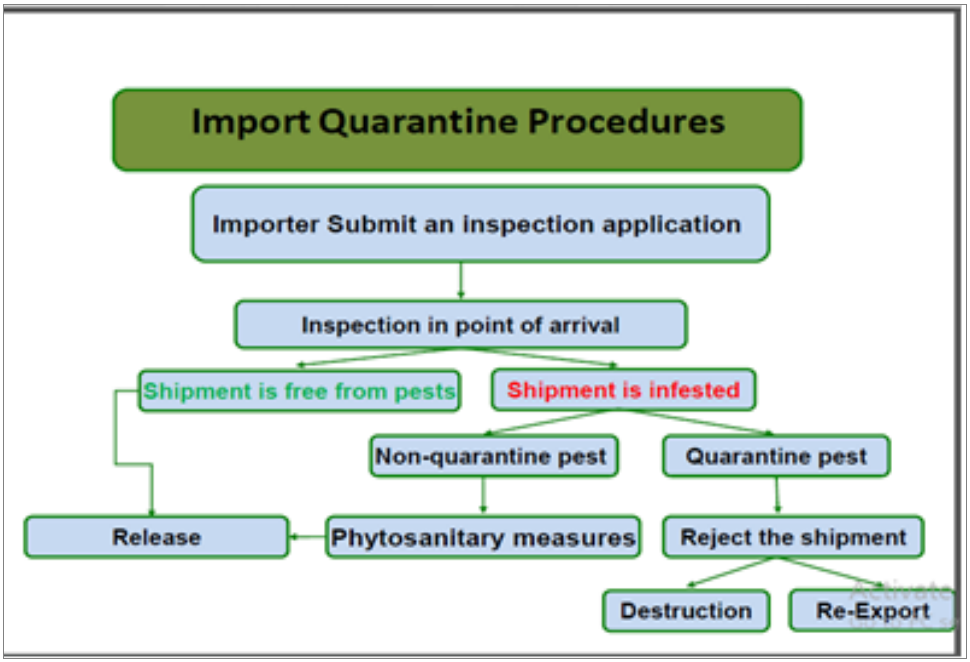
- Inspection of imported consignments of plant/plant products.
- Inspection of plant/plant products consignments for export.
- Inspection of consignments of plant/plant products in transit.
- Inspection of travellers' luggage.
- Inspection of imported postal parcels of plant/plant products.
- Monitoring the imported plant/plant parts for propagation under post-entry quarantine conditions.
- Imported shipment: all plants and plant products are subjected to inspection at the arrival points in Egypt. The decision is being been taken based on the results of inspection, and according to the agriculture act no. 53 of 1966 and its amendments, as one of the following:

  Release without any phytosanitary measures when the shipment is free from any infestation or infection, and comply with the requirements.

  Apply treatment measures, and then release such as fumigation, heat treatment, roasting, dipping in disinfection solutions sieving, processing, etc.

  Re-export or destruction.

Figure 4: Import quarantine procedures

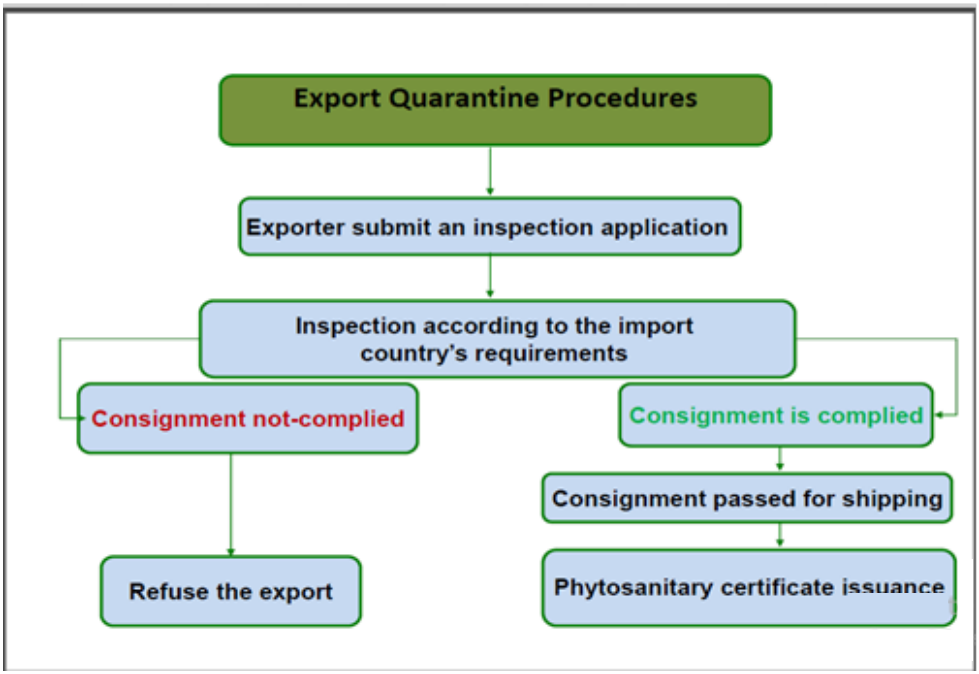


Source: *Report Issued by CAPQ on Plant system health of Egypt to be submitted to IPPC*

D. Exported Shipment

- Inspection of export plant products applied in the preparation and packing stations of exporters.
- Plants/plant products prepared for export inspected according to the Import country's legislation.
- Packaging and preparation station should be certified by PQ.
- Packaging in acceptable, clean packages, in conformity with the appropriate standards.
- Air shipments inspected in the commodity village in the international airports.

Figure 5: Export quarantine procedures



Source: *Report Issued by CAPQ on Plant system health of Egypt to be submitted to IPPC*

Testing Laboratories in the field of Plant Health

There are a number of laboratories providing services in support to the plant health control:

- Central Laboratory for Agricultural Climate (CLAC)
- Weed Research Central Laboratory (WRCL) Regional Center for Food & Feed (RCFF). Accredited according to ISO/IEC 17025 from A2LA
- Central Laboratory of Residue Analysis of Pesticides & Heavy Metals in Foods (QCAP). Accredited according to ISO 17025
- Central Agricultural Pesticide Laboratory (CAPL) - Accredited according to the requirement of ISO 17025
- Central Laboratory for Aquaculture Research (CLAR)

- Central Laboratory for Date Palm Research and Development (CLDPRD)
- Central Laboratory for quality control of poultry production(CLQP)
- Central Laboratory of Organic Agriculture (CLOA)
- Central Laboratory for Agricultural Expert System (CLAES)
- Central Laboratory for Design and Statistical Analysis Research (CLDSAR)
- Central Laboratory for Evaluation of Veterinary Biologics (CLEVB) - Accredited according to the requirement of ISO 17025

Sector Associations

Egyptian manufacturers are represented by several organizations. Key horizontal associations are:

- Federation of Egyptian Industries (FEI)
- Egyptian Exporters Association
- Investors Associations.
- Businessmen Associations

As in the EU members and other countries, there are dozens of sectorial and regional business representative organizations, defending the interest of their industry.

Federation of Egyptian Industries (FEI)

The Federation of Egyptian Industries (FEI) is one of the country's largest employers' associations, with 20 industrial chambers as members, representing over 60,000 industrial enterprises out of which more than 90% belong to the private sector; accounting for more than 7 million workers and 20% of the national economy.

Since its inception FEI has been carrying out its responsibilities towards defending and supporting Egyptian industries, firmly believing in industry as the pillar of the sustainable development of the country and as the tool to alleviate poverty and attain prosperity.

Therefore, FEI effectively advocates the common interests of its members and defends their positions towards governmental and legislative bodies, as well as other local and international associations.

Egyptian Exporters Association

Egyptian Exporters Association (EEA) is a non for profit private sector association, founded in 1997 by the Egyptian private sector.

In 1997 – 2004 EEA cooperated with the donors' community in Egypt to manage and implement export development and promotional activities with USAID technical office to serve the Egyptian exporters.

In 2005 – 2007 another strategic cooperation agreement with the IMC was implemented to execute the event management for the Egyptian participation in International specialized trade fair.

Then the cooperation was continued during 2008 – 2010 through the Export Development Fund and the Export Councils with a mission to develop and promote Egyptian private sector exports in international markets.

Local Egyptian manufacturers have little or no experience with assuming conformity assessment responsibilities under regulatory requirements on their own, as this is currently not foreseen within the Egyptian system. On the other hand, Egyptian industry is showing increasing interest in product certification and quality. This is demonstrated by the fact that the demand for voluntary certification, verification and quality services provided by EOS has increased. The demand for product conformity assessment and quality assurance services is anticipated to increase in particular once the economic climate improves.

Egypt currently relies, for a large part, on mandatory pre-market certification, in order to protect its consumers. There are some market surveillance activities, but it is executed by different bodies with insufficient coordination.

Trade Promotion Organizations

Ministry of Trade, Industry and SMEs

Trade Agreement Sector (TAS)

The Sector drafts trade laws and regulations, and sets trade policies of the Ministry of Industry, Trade and Small and Medium Enterprise in order to promote trade expansion and sustainable economic growth. The competencies of TAS include the negotiation and administration of and coordination and compliance with bilateral, regional and multilateral trade agreements, including the enforcement of Egypt's rights under all trade agreements whether related to trade liberalization, trade facilitation, trade remedies or IPR border measures.

General Organization for Export and Import Control (GOEIC)

It is an executive body affiliated to Ministry of Industry, Trade and Small & Medium Enterprises and works as a service provider. It aims at customer protection and

maintaining the good image of Egypt worldwide through inspecting the quality of imports and exports using the most recent techniques and methods, in addition to preparing exports and imports statistics and reports. The information systems set up at GOEIC allows Customs and trade data to be gathered and processed in real time, for it to be accessed and mined. It also allows monitoring of all transactions and of the movement of all cargo being processed by customs. The information system gathers data, collates and publishes for official purposes and is offering the service to the private sector.

Central Department for international Trade Policies (CD/ITP)

The World Trade Organization encompasses three Agreements that regulate and specify methods and procedures of protection against unfair practices in international trade, i.e., the Anti-Dumping Agreement, the Subsidies and Countervailing Measures Agreement and the Safeguards Agreement. These Agreements are of great importance to the domestic industry as they provide protection against practices of dumping, subsidy and significant increases in imports because they act as the only way to protect domestic industry under the WTO. The department was established to protect the domestic industry from unfair practices in international trade in accordance with the Egyptian Law.

Central Department for WTO Affairs (CD/WTO)

The mission of the Central Department of WTO Affairs, located within the Trade Agreements Sector is to coordinate between all relevant authorities to ensure Egypt's full and effective participation in the WTO, and in the process, derive maximum economic and social benefits for Egyptians.

In pursuance of its mission, the CD/WTO strives to achieve the following key objectives:

- Coordinate all WTO-related matters for Egypt.
- Integrate Egypt fully into the WTO to derive maximum benefits and safeguard national economic, security and social interests.
- Facilitate compliance with WTO membership-related obligations.
- Develop institutional capabilities within the CD/WTO.

Central Department for Bilateral and Multilateral Agreements (CD/BMA)

The Central Department for Trade Agreements conducts studies, concludes negotiations of Protocols and Agreements, monitors implementation of Agreements, and raises public awareness of bilateral and multilateral trade agreements. This involves undertaking the necessary studies, as well as the coordination of, and participation in, talks and negotiations with the goal of concluding relevant agreements and protocols. It also involves following up on ratification and implementation procedures, as well as taking the necessary measures to resolve implementation problems. An evaluation of each agreement after its entry into force is carried out.

European Partnership Agreement Unit (EPAU)

The EPAU is mandated under the organizational structure of the Trade Agreements Sector with the responsibility of monitoring the implementation of the Agreement and conducting the following tasks:

- Review of trade flows with the EU (under the Agreement) with a periodical evaluation of the impact of implementation on Egypt's trade with the EU via a monthly report including the following:

  Trade data on items subject to exemptions (whether Egyptian Customs or EU data).

  Trade data on items not subject to exemptions (whether Egyptian Customs or EU data).
- Propose necessary procedures to implement Article 86 of the Agreement stating that "The Parties shall take any general or specific measures required to fulfil their obligations under this Agreement."
- Prepare for negotiation rounds.
- Investigate trade impediments with the EU and propose solutions in collaboration with the concerned authorities.
- Monitor Euro-Mediterranean Partnership Agreements with Mediterranean countries other than Egypt.
- Monitor other agreements to which the EU is a party.
- Monitor various EU issues that impact Egyptian foreign trade.
- Prepare studies and conduct research on the impact of implementation of the Agreement on various sectors.
- Coordinate with all concerned entities with the aim of attaining the maximum benefit for Egypt.

Foreign Trade Sector (FTS)

The sector is responsible for drafting laws, regulations, procedures and policies governing imports and exports. The sector also coordinates with the Egyptian Customs Authority, the General Organization for Export and Import Control, and all other relevant stakeholders to implement import export laws and executive regulations and resolve any implementation problems. Furthermore, the Sector prepares trade studies and collaborates with civil society to promote exports and find new markets for Egyptian exports.

Inter-Ministerial Committee no. 106/2013 (to prepare for ACAA negotiation)

Main duties of the committee according to ministerial decree:

- Preparation of the Egyptian position concerning ACAA.
- Preparation of plans and programs to restructure the internal organizational infra-structure to comply with ACAA requirements.
- Reviewing rules and regulations concerned with the implementation of ACAA.
- Preparation of implementation programs for industrial sectors to comply with ACAA.
- ***Note***: This Inter-Ministerial Committee is the Egyptian focal point concerning ACAA.

Egyptian International Trade Point (EITP)

Egyptian International Trade Point (EITP) is a governmental sector, non-profit organization in the field of e-commerce, e-promotion for Egyptian products, services and investments via web sites and e-networks.

The main services of the Egyptian International Trade Point (EITP) are as follows:

- e-Promotion for Egyptian products and services
- Supporting SMEs by promoting their products an services to be on trade international map
- Raising exporting awareness through participating in conferences, forums, seminars and workshops
- Organizing workshops for SMEs for applying e-commerce
- Issuing e-Catalogues for competitive Egyptian products and services
- Providing trade statistics and studies according to (commodity, country, and economic groups, etc.
- Supporting SMEs by promoting their products and services to be on trade international map

Export Councils

The Export Councils are councils established by the Ministry of Trade and Industry**.** They are the link between private sector exporters and government regime. The Council aims at improving the legislative and business environment for Egypt, by improving the competitive advantage of the different sectors, and to strengthening the industry's positive image in the world market place.

To accomplish their objectives, the export councils provide services to match between political decisions and business interests, including hosting events in Egypt as well as participating in conferences, workshops, and fairs abroad to have a hand out experience on the requirements of exports all over the world.

Export Councils' Activities

A. Government Support Program

- Introducing and creating awareness among the exporters on the government support program.
- Classify supported commodities according to HS Codes

B. Data Collection and Analysis

- Disseminate monthly data to the Minister's office in coordination with GOEIC for the following items:

  Growth increase for each sub-sector

  Identify the largest exports during a given period of time

  Analyse the effect of the various trade agreements on exports

  Analyse Egyptian exports and imports to regional, and international markets

  Coordinate with all entities working in the sector to establish a reliable data base.

  Continuous check of member companies ID codes, HS codes, and Export figures

C. Government Advocacy

- Lobby and support in decisions related to the export sectors
- Address problems faced by exporters
- Identify trade agreements application problems and suggest solutions
- Enhance Egypt position in all foreign trade agreements negotiations
- Prepare the national exports strategy

D. Circulate important information and data to members

- Export opportunities
- Market studies
- Ministerial decrees
- Foreign trade agreements
- Donors funding availability including terms and condition
- Sectorial studies per commodity

E. Increase Egypt's Exports

- Establish an endowment for disaster funds
- Represent the Sector in all related international fares
- Support exporters with data, services and studies
- Support members with reliable information in penetrating new markets

Different export councils were formulated by the Trade and Industry Minister Decrees, those councils work in different scopes

- Food Export Council (FEC)
- Chemicals & Fertilizers Export Council (CEC)
- Agricultural Export Council (AEC)
- Engineering Export Council (EEC)
- Egyptian Furniture Export Council (EFEC)
- Home Textile Export Council (HTEC)
- Leather Export Council (LEC)
- Export Council of Medical Industries (ECMI)
- Textile Export Council (TEC)

Federation of Egyptian Chambers of Commerce

The Federation is the supreme organ and coordinated efforts of all the chambers of commerce and business organizations where it has a legal personality as the legitimate representative of the Chambers of Commerce, all organizations, public authorities and foreign organizations, regional or international.

The Federation also carries out commercial arbitration in accordance with the provisions of the law, and the establishment of the overall quality. It encourages the establishment of exhibitions, participation in decision-making in economic and trade bodies and competent authorities.

Main duties of the federation:

- Contribute to the modernization and development of internal trade and the development of systems to provide information necessary for anyone who wants to deal with it.

- Awareness and rehabilitation of the commercial sector to deal with the developments and challenges taking place in the domestic and global markets.
- Highlight the importance of the business community and its contribution to the economic and social development.
- Contribute to raising the competitiveness of businesses small and medium-sized private and rehabilitation of human resources needed to manage them.
- Constant quest and struggle to give the public rooms and union trust and respect of all decent bodies and governmental and non-governmental institutions and to emphasize the importance of their role and deepen its participation in all laws and industry trade and economic decisions issued by the responsible authorities in the country.
- Focus on boosting exports and given special priority because of its importance in the recovery of the national economy.

Other Quality and SPS-related Associations

Egyptian Society for Quality (ESQ)

Founded in 1997 and its scope of work involves cultural, scientific and consumer protection and environmental protection activities; as well as educational services on quality and all related fields.

Its vision is to work on the continued development and ensure that quality of products and services are of the highest quality for life of every citizen; to establish the concept that the citizen is the cornerstone of all development plans; and continue working towards meeting the requirements and expectations through the following goals:

- Raise awareness and create high-quality culture in the community through the issuance of periodicals and magazines and scientific publications for the principles of total quality.
- Hold meetings, seminars and conferences periodically to present and discuss all of the scientific research and news related to quality, environment and occupational health and safety and consumer protection.
- Promote specifications and standards of products and services for citizens.
- Encourage workers in quality activities and work to protect their rights and represent them on all fields.
- Cooperation and mutual recognition with similar international bodies working in the field of quality.

- Develop training programs for quality assurance, and total quality management in collaboration with universities and educational institutes.
- Raising the performance level of the institutions and bodies through stimulus programs and training courses for the development of quality in all the productive and service sectors and in the field of environment.

Training, consulting and advisory services

Forging Trade Training Centre (FTTC)

FTTC is a non-profit autonomous training institute under the auspices of the Ministry of Trade and Industry (MTI). FTTC aims at developing Egyptian export competitiveness through providing training services to enhance and empower exporters' skills, knowledge and capabilities.

The specialized training centre delivers a number of training courses and services related to business and trade development for accelerating the awareness of the global market needs and competitiveness.

FTTC is acknowledged as a training services provider by different international institutes and organizations specialized in the field of export promotion such Centre for Promotion of Imports from Developing Countries (CBI), Indian Institute of Foreign Trade (IIFT), Institute of Export - UK.

FTTC is ISO 9001 certified.

National Quality Institute (NQI)

The vision of the institute is to promote quality to its highest level in complying with international quality systems. It aims to achieve this vision through the following activities and allocated missions:

- Develop the individual and institutional capabilities in quality.
- Publicize quality culture in both industrial and service societies.
- Carry out specialized training programmes in the fields of quality systems.
- Transfer information and technology related to quality to implement the most modern systems for productivity improvement.
- Provide consultative services in quality systems.
- Establish data bases for all fields' and activities of quality.
- Carry out awareness programmes for producers and consumers on quality and standards activities.

Industrial Modernization Centre (IMC)

The Industrial Modernization Centre (IMC) was established by a Presidential Decree in December 2000 to give an impetus for a sustainable, modernized, vibrant and competitive Egyptian industry. The aim is to support the industrial enterprises, and create an enabling business environment for the industrial sector, in coordination with the Ministry of Industry, Trade and SMEs.

IMC started delivering services since 2002 and built up its portfolio based on a demand driven basis that maintains a dynamic approach to accommodate with the needs and ongoing challenges of the industry.

In this domain, IMC has 300 professional staff members working on reaching the Egyptian industrial community through 19 graphically disbursed branches, 50 sectoral development studies. So far, 100,000 services have been provided to 13,000 clients across nine industrial sectors.

Together with the Egyptian industrial community, IMC is forming a public/private partnership consisting of various representatives from the public sector such as the Ministry of Industry, Trade and SMEs and its relevant affiliates alongside the private sector, for example in the Federation of Egyptian Industries, Export Councils and Investors' Associations, all with respective responsibilities.

TBT National Enquiry Point

In 1995 Egypt submitted notice to the WTO identifying EOS as the National Enquiry Point for the TBT Agreement and identifying EOS as the authority responsible for making notifications. The notification envisages 60 days for comments on technical regulations. This applies to the standard development process and not to the conversion of a standard to a technical regulation (All Egypt's Notifications on website: http://www.tas.gov.eg/English/WTO/Notifications/notifications_eg.htm).

SPS National Enquiry Point

Central Administration for Foreign Agricultural Relations - Ministry of Agriculture and Land Reclamation is appointed to be SPS National Enquiry Point. As such, it is responsible for discussing all issues related to SPS measures, meeting international standards and monitoring Egyptian obligations and rights under the SPS Agreement. In doing so, it coordinates its work with Animal Quarantine, Plant Quarantine, the General Organization for Export and Import Control, the Egyptian Organization for Standardization & Quality, the Ministry of Health and Population, and the Ministry of Environment.

Chapter III

Major Development and Technical Assistance Programmes on Quality and SPS in Egypt

The Egyptian Organization for Standardization & Quality (EOS) and **Expertise France** with the undertaking of AFNOR (French Standards Body), in consortium with BSI (British Standards Institute) and AENOR (Spanish Standardisation Body), is carrying out a 27 months EU Twinning Project in Egypt. The project is being implemented in the framework of the Support to the Association Agreement Programme (SAAP) – Ministry of International Cooperation – a programme funded by the European Union. The purpose of the project is to strengthen the capacity and to widen the scope of EOS.

The Egyptian National Institute of Standards (NIS) and **The British Standards Institution (BSI)** are carrying out a 24 months EU Twinning Project in Egypt. The project is being implemented in the framework of the Support to the Association Agreement Programme (SAAP) – Ministry of Planning and International Cooperation – a programme funded by the European Union. The purpose of the project is to strengthen the core functions of NIS in line with international best practises.

The Egyptian Accreditation Council (EGAC) and **BAM, the Federal Institute for Material Research and Testing – Germany,** in consortium with ACCREDIA – The Italian National Accreditation Body, is carrying out a 21 months EU Twinning Project in Egypt. The project is being implemented in the framework of the Support to the Association Agreement Programme (SAAP) – Ministry of International Cooperation, a programme funded by the European Union. The purpose of the project is to strengthen the capacity and widen the scope of EGAC.

MENA Star Project

The 2013-2017 project, funded by SIDA and implemented by ISO, aims to strengthen institutional infrastructure on standards and regulations to support business and industry. EOS is the main project beneficiary.

Aid for Trade Initiative for Arab States (AfTIAS): as part of this initiative, the ITC is planning to update the NTMs survey report particularly in relation with obstacles related to changing TBT and SPS requirements. Some of these barriers will be addressed working with the appropriate institutions in Egypt.

Annex I

Relevant organizations in Egypt

Organization	Activities / Other Activities
1. Relevant National Organization (Public Sector)	
Egyptian Organization for Standardization & Quality - EOS **Address:** 16 Tadreeb El- Modarrebeen st, Ameriya, Cairo Web: www.eos.org.eg Tel: (+202) 22845524, 22845522 Fax: (+202) 22845501 Email: eos@idsc.net.eg	National Standard Body TBT National Enquiry Point Product Testing (Textile, Engineering, Chemical, Food) Product certification Industrial Calibration
Egypt Accreditation Council – EGAC **Address:** Kornish El-Maadi, Riad El-Maadi Tower 1, Cairo Web: www.egac.gov.eg Tel: (+202) 25275224 / 5 / 7 Fax: (+202) 25275226 Email: egac2000@idsc.net.eg	National accreditation body
Consumer Protection Agency – CPA **Address:** Mohandseen, Cairo Web: http://www.cpa.gov.eg Tel: (+202) 33055768 / 5 / 2 Fax: (+202) 33055753 Email: info@cpa.gov.eg	Consumer protection

Organization	Activities / Other Activities
General Organization for Exports and Imports Control – GOEIC **Address:** Cairo airport Cairo Web: http://www.goeic.gov.eg Tel: (+202) 08006667666 Fax: (+202) 22676945 Email: tsc@goeic.gov.eg; askadmin@goeic.gov.eg	Border Control Testing Inspection
Chemical Administration **Address:** 12 Ramsis ST, Cairo Web: http://www.mfti.gov.eg/affiliates/industry/chemistry/index.htm Tel: (+202) 5740770 Fax: (+202) 5740750	Chemical testing
National Research Center – Central Lab **Address:** El Buhouth St., Dokki, Cairo, Egypt Web: http://www.nrc.sci.eg Tel: (+202) 33371362 / 433 / 615 / 933 / 449 Fax: (+202) 33370931 Email: info@nrc.sci.eg	Product Testing Consultation
Textile Consolidation Fund – TCF **Address:** 7 El-Taher Street, Abdin, Cairo, Egypt Web: http://www.tcfegypt.org/ Tel:(+202) 23925521 - 23925633 - 23925735 Fax: (+202) 23928013 - 23959341 E-Mail: mgnassef@tcfegypt.org, tcf_textiles@tcfegypt.org	Textile Testing

Organization	Activities / Other Activities
National Institute of Standards – NIS **Address:** Tersa Street, Haram, P.O. Box 136, Giza Web: http://www.nis.sci.eg Tel: (+202) 33867454 Fax: (+202) 33867451 Email: info@nis.sci.eg	Scientific metrology Measurement Industrial calibration
Assay and Weights Administration **Address:** El-Gamalia house Square, Cairo Web: http://www.msit.gov.eg/mss/ar-eg/ Tel: (+202) 25904544 Fax: (+202) 25907525 Email: egyptian_hallmark@mti.gov.eg	Legal Metrology Hallmark Measurement Industrial calibration
The Industrial Control Authority – ICA **Address:** 59 Ramses st, Nasr City, Cairo Web: http://www.ica.gov.eg/Homepage/main/hpmain.asp Tel: (+202) 23420302 - 2342026376/67 - 23420264 Fax: (+202) 27613720 Email: amdemam@hotmail.com	Inspection Pre-Market control
Egyptian Drug Authority (EDA) **Address:** 21 Abd El-Aziz Al Soud Street, El-Manial, Cairo Web: http://www.eda.mohp.gov.eg Tel: (+202) 25354100 (30 lines) Email: info@eda.mohp.gov.eg	Inspection Market control

Organization	Activities / Other Activities
General Organization for Veterinary Services **Address:** Eleslah Bldb, Floor 5, 1 Nady El Seed St., Dokki, Giza Web: www.govs.gov.eg Hot Line: 19651 Fax: (+202) 33361727, (+202) 33377608 Email: govs-egypt@govs.gov.eg	Veterinary Services
The Central Administration of Plant Quarantine (CAPQ) **Address:** 1 Nady Elsad St, Postal code 12611 Doki, Giza Web: http://epqegypt.arabblogs.com/ Tel: (+202) 3363582 Fax: (+202) 7498673 Email: ippc.egypt@gmail.com	Plant Quarantine
2. Private Certification Bodies and/or product testing	
CERTIND MIDDLE EAST **Address:** 13 Nasser Street, Camp Shizar, Alexandria Web: http://www.certind.com/en/contact Mobile: (+201) 000561200 Phone: (+203) 5900191 - 5900192 Fax: (+203) 5900121 Email: cert@certindme.com	Management Systems Certification Management Systems Training
COTECNA Inspection Egypt **Address:** 40 El Fardous Street, Smouha District, 10P the Floor, App. # 1002 Alexandria, Egypt Web: http:// www.cotecna.com Tel: (+203) 4273634 Fax: (+203) 4273639	Management Systems Certification Management Systems Training

Organization	Activities / Other Activities
Federation of Egyptian Chambers of Commerce **Address**: 4, Elfalaki Square, Bab El Louk, Cairo, Egypt Tel: (+202) 7952983, 7951136 Fax: (+202) 7951164 Web: http://www.fedcoc.org.eg E-mail: info@fedcoc.org.eg	
Intertek Testing Services Caleb Brett Egypt **Address:** 217 Abd-Elsalam Aref st. - Saraya 21411, Alexandria, Egypt Web: http://www.intertek.com Tel: (+203) 582441 Fax: (+203) 5831438 Email: CBECommunication.egypt@intertek.com	Testing
Moody Intertek Egypt **Address:** Ground Floor, 69 Road No 161, Intersection with Road No 104. Maadi, 11431, Cairo, Egypt Web: http://www.intertek.com/contact/ema/egypt/ Tel: (+202) 25253841, 25276026, 25244745	Management Systems Certification Management Systems Training
Quality Services Group (S.A.E) **Address:** 9 Gamal Eldin Adol, Mahassen Street, Garden City, Cairo Web: http://www.qsgegypt.net Tel: (+202) 27923043	Management Systems Certification Management Systems Training

Organization	Activities / Other Activities
RINA Services S.P.A **Address:** 8 Fouad Thabet Street Square, No. 1164 Sheraton Buildings, Heliopolis, Cairo P.O. Box150, Egypt Web: http://www.rina.org/en/contacts#city-Africa%20&%20Middle%20East_Egypt_Cairo Tel: (+202) 22693710 Fax: (+202) 26900515 Email: cairo.certification@rina.org	Management Systems Certification
SGS Egypt Ltd **Address:** 1.Osman road, El Mariouteya, El Harraneya- Haram, Giza Tel: (+202) 3842811 Web. http://www.eg.sgs.com	Management Systems Certification Management Systems Training
TÜO Technical Supervision Organization for Safety Quality Environmental Protection **Address**: St. 1164 - Building No 5 El Wozara Square-Masaken Sheraton Cairo, Egypt Web: http://www.tueo.com/ Tel: (+2010) 939 742 31 Email: haberbosch@tueo.com	Management Systems Certification Management Systems Training
TUV NORD Egypt for Inspection & Certification Services **Address:** 34 Al-Riyadh st., of Shehab st., El Mohandiseen**,** Giza, Egypt Web: http://www.tuv-nord.com/eg/contact-37.htm Tel: (+202) 330 51 948 Fax: (+202) 330 26 125 Email: tuvegypt@tuv-nord.com	Management Systems Certification Management Systems Training

Organization	Activities / Other Activities
TUV Rheinland Egypt Limited **Address:** Building # 11B Road 206 Maadi Degla, Cairo, Egypt Web: http://www.tuv.com/en/middleeast/home.jsp Tel: (+202) 2516 6297, 2516 6998 Fax: (+202) 2970 20 19 Email: marketing@eg.tuv.com	Management Systems Certification Management Systems Training
United Registrar of Systems LTD (URS Egypt) **Address:** 20 Palestine Street, Maadi, Cairo-Egypt Web: http://www.ursegypt.com Tel: (+202) 33056397 Fax: (+202) 33056397 Email: sherifabdelbaset@ursegypt.com	Management Systems Certification Management Systems Training
AJA Registrars Egypt **Address:** : 38 Emtedad Ramsis 2,Flat 53, El Nasr Road, Nasr city, Cairo-Egypt Web: http://ajaregistrarsgroup.com/office/egypt/ Tel: (+202) 24044236 Fax: (+202) 24044236 Email: ajaegypt@hotmail.com	Management Systems Certification
TÜV SÜD - Egypt **Address:** 1 Teheran St., Of Mussadak St., Dokki, Guiza – EGYPT Web: www.tuvegypt.com Tel: (+202) 33 36 80 49 Fax: (+202) 33 36 80 47 Email: tuvegypt@tuvegypt.com	Management Systems Certification Management Systems Training

Organization	Activities / Other Activities
ISOQAR - Egypt **Address**: Cornish Al Maadi, AL Maadi Star Tower B, Entrance 1-2 , 26th Floor App. 1002 Cairo , Egypt Web: N/A Tel: (+202) 25258890 - (+2010) 28485872 Fax: (+202) 25258890 Email : N/A	Management Systems Certification Management Systems Training
QA TECHNIC-EGYPT **Address**: 2nd Neighbourhood, Central Spine, 1st District, El Sheikh Zayed, 6th of October, Giza, Egypt Web: www.qatechniceg.com Tel: (+202) 3850904 Fax: (+202) 38509042 Email : agriscope2007@yahoo.com	Management Systems Certification Management Systems Training
American Systems Registrar (ASR -Egypt) **Address**: 1 AL Haram Mountasr Building, App. # 2, AL Talbia, AL Haram, Giza, Egypt Web: www.asrworldwide.com/ Tel: (+2010) 01131181 or (+2010) 01131125 Fax: (+202) 3586 3443	Management Systems Certification Management Systems Training
DQS Cert Egypt **Address**: 13 Amin El Rihany Street, Off Ibrahim Nawwar, 6th District Nasr City, Ground Floor Apartment No. 2 , Cairo, Egypt Web: http://www.dqs-egypt.com Tel: (+202) 23549558 / 23548559 / -590 Fax: (+202) 23548/590 E-Mail: info@dqscerteg.com	Management Systems Certification Management Systems Training

Organization	Activities / Other Activities
QMS CS Egypt **Address**: 58 American Towers Towner No 2, Elhosray Square & 3th District 3th (neighborhood Zaid City) October City, Cairo, Egypt Web: www.qms.com.au Tel: (+202) 38304578 Fax: (+202) 38304578 Email : Egypt@qms.com.au	Management Systems Certification Management Systems Training
Lloyd's Register EGYPT **Address**: 13 Ramw Gardens, El-Nasr Road, Nasr City, Cairo, Egypt Web: http://www.lr.org/en/manufacturing /product-certification.aspx Tel: (+203) 480 5088 Fax: (+203) 484 0795 Email: alexandria@lr.org	Management Systems Certification Management Systems Training
Royal Cert EGYPT **Address**: Po Box 29 Ibrahimia, Alexandria, Egypt Web: www.royalcert.com Tel: (+203) 5905359 Fax: +20-359-053-59 Email: egypt@royalcert.com	Management Systems Certification Management Systems Training
BSI Management Systems, Egypt **Address**: 1 Mountasr Buildings, Altabia, Alharam, Giza, Egypt Web: N/A Tel: +202 3583 9259 Fax: +202 3583 9259 Email: bsiegypt@bsiegypt.com	Management Systems Certification

Organization	Activities / Other Activities
OSS Middle East - Egypt **Address**: 14 Mohammed Dory Pasha St. Loran, Alexandria, Egypt Web: https://ossmideast.com/ Tel/Fax (+203) 5702661 -(+203)5702391 Email : info@ossmideast.com	Management Systems Certification Management Systems Training
FQC MIDDLE EAST **Address**: 31 Minaa Aghadir Street, Miami, Alexandria, Egypt Web: http://fqcmiddleeast.com/ Tel: (+203) 542 9760 Fax: (+203) 542 9760 Email: info@fqcme.com	Management Systems Certification Management Systems Training
DNV GL – EGYPT **Address**: 380 Corniche ElNile St. Jawharet ElMaadi Building, 35th Floor, Office # 6, Cairo Egypt Web: https://www.dnvgl.com Tel: (+202) 25 28 74 47 Fax: (+202) 25 28 74 47 Email: Nancy.soufy@dnv.com	Management Systems Certification Management Systems Training
CERES Egypt **Address**: 2/G4 Sharaawy st. of Lasilky, st. New Maadi, Cairo, Egypt Web: http://www.ceres-cert.com/portal/index.php?id=20 Tel: (+202) 275 48 508 Fax: (+202) 275 48 508 Email: mohsen@ceres-cert.com	Management Systems Certification Management Systems Training

Organization	Activities / Other Activities
Brilliant Certification **Address**: Entrance PO Box 12588 El Sheikh Zayed 1, El-Mehwar El-Markazy, El-sheikh Zayed, Building 24, district 1, area 2, Giza, Egypt Web: http://www.brilliantcert.com Tel: (+202) 38518972 / (+202) 38518973 Fax: (+202) 38518953 Email: Info@brilliantcert.com	Management Systems Certification Management Systems Training
QAS MIDDEL EAST **Address**: 49 Sixteen neighborhood, Sheikh Zayed, October City, Egypt Web: www.qascert.com Tel: (+202) 379 52015 Fax: (+202) 379 52016 Email : info@qascert.com	Management Systems Certification Management Systems Training
International Standards Certifications ISC - EGYPT **Address**: 1, Mohamed Fahmy Str., Nasr City, Cairo, Egypt Web: www.isc-egypt.org Tel: (+202) 22 611 600 Fax: (+202) 22 611 601 Email : info@isc-egypt.org	Management Systems Certification Management Systems Training
DAS Egypt **Address**: Section 7 – Block 34 Africa Str, (Extension of Mustafa EL Nahas Str) (Ninth Zone), Nasr City, Cairo, Egypt Web: http://dascertification.co.uk/blog/worldwide-offices/das-egypt/ Tel: (+202) 24734135 Fax: (+202) 24734135 Email: daskme@yahoo.com	Management Systems Certification Management Systems Training

Organization	Activities / Other Activities
Acerta Middle East Ltd - Egypt **Address**: Villa 9030, Israa St. Mogawra 9, Al Mearaj Al Sofly, Maadi, Cairo, Egypt Web: http://www.acerta-cert.com Tel: (+2010) 20050188 Fax: N/A Email: info@acerta-me.com	Management Systems Certification Management Systems Training
3. Industrial Calibration	
Aircraft Factory Company (ACF) **Address:** Helwan El Hamamat, Cairo, Egypt Web: http://www.aoi.org.eg/ Tel: (+202) 5559563 Fax: (+202) 5553946 Email: acfaoi@link.net	
AL-GEEL Medical Calibration Laboratory (permanent and on-site) **Address:** 23-A Emtedad Ramses Buildings, Nasr City, Cairo Web: http://www.algeeltrading.com/en/ Tel: (+202) 2618685 Fax: (+202) 4044520 Email: geelmed@link.net	
Arab British Dynamics Company (ABD) **Address:** Kilo 4.5 Cairo-Suez Road, Cairo - Egypt Web: http://www.aoi.org.eg/ Tel: (+202) 686736, 689023, 689024 Fax: (+202) 688726 Email: abdquality@aio.com.eg	

Organization	Activities / Other Activities
Arab British Engine Company (ABECO) **Address:** 5 Omar Ibn Abdelaziz St, Helwan Sharkeya, Helwan, Cairo Web: http://www.aoi.org.eg/ Tel: (+202) 55830229 Fax: (+202) 5548351	
Calibration Consulting Group (CCG) **Address:** 20 Hassan Aflaton st., Golf Land, Nasr City, Cairo Web: http://ccgcalibration.com/ Tel: (+20) 24185320 / (+20) 24198540 Fax: (+20) 24185320 Email: Scheduling@ccgcalibration.com	
Integrated Calibration Services (ICS) **Address:** 7 El Sheikh Mahmoud Abou El Oyoun St., Heliopolis, Cairo Web: N/A Tel: (+202) 26325841 Fax: (+202) 26376302 Email: N/A	
4. Business Associations and Trade Promotion Organizations	
Egyptian Exporters Association **Address:** Sherif Basha, Abdeen, Cairo Web: http://www.eec-eg.org/ Tel: (+202) 23955756 Email: eec@eec-eg.org	

Organization	Activities / Other Activities
Egyptian Society for Quality **Address:** 12 Obour Bldgs., Salah Salem Road, Heliopolis - Cairo Web: http://esq-eg.org Tel: (+202) 24030503 Fax: (+202) 24030503 Email: info@esq-eg.org	
Federation of Egyptian Industries (FEI) **Address:** 1195 Corniche El Nil. Cairo Web: http://www.fei.org.eg/ Tel: (+202)25796590/1/2 Fax: (+202)25796694 Email: info@fei.org.eg	
Federation of Egyptian Chambers of Commerce **Address:** 4 . Bab El Louk, Elfalaki Square, Cairo Web: www.fedcoc.org.eg Tel. (+202) 27952983,7951136 Fax (+202) 27951164 Email: info@fedcoc.org.eg	
5. Training centres	
Forging Trade Training Centre (FTTC) **Address:** 29 Markaz El Maalomat St., Masaken Sheraton, Heliopolis Web: www.fttceg.org Tel: (+202) 2267 4315 / 42 / 90 Fax: (+202) 2267 4320 Email: info@fttceg.org	

Organization	Activities / Other Activities
National Quality Institute – NQI **Address:** 2 Abas Elakad St. Cairo Web: http://www.nqiegypt.org Tel: +202 22873144 Fax: +202 22743298 Email: info@nqiegypt.org	
6. Governmental Entities supporting industry and trade	
Agricultural Export Council (AEC) **Address**: 90 Road 105 – Maadi – 1st.floor, Cairo Web: http://www.aecegypt.com/ Tel: (+202) 25283611 Fax: (+202) 25283612	
Chemicals & Fertilizers Export Council (CEC) **Address**: Abbasiya - MOF Towers - Tower # 6 - 11th Floor - Office # 11.07.6, Cairo Web: http://www.feceg.com/ Tel: (+202) 23420917 Fax: (+202) 23420921	
Egyptian Furniture Export Council (EFEC) **Address**: Chamber of Commerce Building, Damietta Web: http://www.efecfurniture.com/ Tel: (+2057) 2226078 Fax: (+2057) 2226078	

Organization	Activities / Other Activities
Engineering Export Council (EEC) **Address**: 26 Asherif street, El Eamobilia Building, 7th floor, Downtown, Cairo Web: http://www.eecegypt.org/ Tel: (+202)2395 5756 Fax: (+202)2395 5756	
Export Council of Medical Industries (ECMI) **Address**: 3 El Marwa new buildings, Ahemd Tayseer st, 3rd floor App no 305, Heliopolis, Cairo Web: http://ecmi-eg.org.sunflower.arvixe.com/Home Tel: + (202) 2418 7919 Fax: + (202) 2418 7914	
Food Export Council (FEC) **Address:** 69B Road 15, In front of Embassy of Peru - Maadi, Cairo Web: http://www.feceg.com/ Tel: (+202) 275 107 37/ 275 107 47 Fax: (+202) 235 991 30	
Home Textile Export Council (HTEC) **Address**: Imtdad Ramses St, Ministry of Finance Towers, Tower 6, 11th .Floor, Cairo Web: http://egyptianhometextiles.org/; http://egyptianhometextiles.org/contact-us.aspx Tel: (+202) 23422345 Fax: (+202) 2342345	Handmade Carpet Carpet and floor covering Terry Towels Bed and Table sheet Curtains. Blankets. Mattresses.

Organization	Activities / Other Activities
Industrial Modernization Centre (IMC) **Address:** 1195 Cornish El Nil, Federation of Egyptian Industries Building, 2nd floor, Cairo Web: http://www.imc-egypt.org/ Tel: (+202) 257 700 90 – 0800 462 0462 Fax: (+202) 257 728 70	
Leather Export Council (LEC) **Address**: Imtdad Ramses St, Ministry of Finance Towers, Naser city, Cairo Web: http://www.lecegypt.org/ Tel: (+202) 23420909 Fax: (+202) 23420 915	
Textile Export Council (TEC) **Address**: 166 El Choueifat St, New Cairo, Cairo Web.: http://www.textile-egypt.org/ Tel: (+202) 26164935 Fax: (+202) 23420918	Fibers Yarns (Natural and Man-made) Sewing (Natural and Man-made) Woven and Knitted Fabrics Denim Fabrics Technical Textiles Non-Woven Textiles Dyeing, Printing and Finishing Services

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Website: www.intracen.org

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