

مجلس أبــوظـبي للـجـودة والــمـطـابــقــة ABU DHABI QUALITY & CONFORMITY COUNCIL

Abu Dhabi Quality and Conformity Council

Central Testing Laboratory

April 2021



Abu Dhabi Emirate requires a solid Quality Infrastructure (QI) to achieve its objectives and integrate with global markets

Abu Dhabi Economic Vision 2030 is shaping a diversified and globally integrated economy . . .

... Abu Dhabi Quality and Conformity Council has been enacted¹ to develop the Emirate's Quality Infrastructure and enable stronger participation in global markets...

...Quality Infrastructure helps protect the people and businesses of Abu Dhabi from the challenges of globalization



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معهد الإمارات للمترولوجيا

الإمـــارات The Emirates



- Quality Infrastructure is the system of technical capabilities used in developed countries to raise the quality of goods imported, traded and exported
- Quality Infrastructure is used to protect markets, businesses and consumers and enables countries to integrate into the global trade svstem



Recognition of Abu Dhabi as a quality producer and elevation of "Made in Abu Dhabi" status

EXAMPLES

Eliminate Low Quality Imports



 Elimination of unsafe imports that fail to meet safety standards and pose risk to consumers

Promote Trade and Competition



 Harmonization of local regulations with International requirements promotes Trade and competition

A baseline exercise of Abu Dhabi Market that was conducted prior to the establishment of the Council emphasized the urgent need for world-class quality infrastructure services in Abu Dhabi and UAE



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Countries with advanced economies have invested in quality infrastructure to enable integration into the world trade system



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QCC's legislative mandate provided QCC with a wide range of functions to overcome Quality Infrastructure challenges witnessed in the emirate



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Eight stakeholder groups who need to be engaged and managed effectively are identified to take a major role in implementation of QCC Strategy



STRATEGIC STAKEHOLDERS

According to the enabling role of QCC, strategic stakeholders can be divided into (8) groups including federal and local government



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Abu Dhabi Quality and Conformity Council's Vision, Mission & Values are set to support the Council achieve its goals and objectives

Vision Developing Abu Dhabi's Quality Infrastructure to contribute in enabling global distinction of the Emirate of Abu Dhabi

Mission

To lead, facilitate and develop an efficient, effective and globally integrated quality infrastructure in Abu Dhabi that promotes a culture of quality, enhances industrial development and competitiveness as well as ensures consumer safety.



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معقد الإمارات للمترولوجيا

QCC contributes to the achievement of the Abu Dhabi vision through a Strategy that make use of Quality Infrastructure services



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Central Testing Laboratory Sector "Overview"

FIAT



CTL is the technical body with highly qualified personnel and advanced technology contributing to Abu Dhabi vision

CTL provides testing services and beyond ...







Technical Advisory



Specialized Technical Training

Certification





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Applied scientific Researches

... with its highly qualified personnel and developed infrastructure



(162) Qualified and Specialized staff



ilac

IAF

(3) Sites to provide the services of CTL in Abu Dhabi and Al Ain

Accredited Testing procedures according to international organizations (IAF, ILAC)

CTL aims to...



Develop local talent in science in line with best practices



Create a scientific cluster

Build global quality brand for Abu Dhabi products

Create global center for excellence for testing and certification







Strategic System of Central Testing Laboratory consists of many services depending on the objectives of these services



Volume of activities

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Since the consolidation of the testing facilities in Abu Dhabi, CTL managed to expand its capabilities from (3) testing services to cover (10) testing services currently



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CTL also introduced new value-added capabilities that include specialized technical training, certification, technical advisory and scientific research to support regulators and industry

Applied Scientific Research



Providing scientific research services to support government agencies and the industrial sector to contribute to improving and developing production processes, which has a positive impact in supporting industry and innovation projects.

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Technical Advisory



Conducting specialized studies, surveys and consultations to support government agencies and the industrial sector and contribute to improving the quality of locally manufactured products and enabling them to meet the standards of targeted global markets.

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Certification

Enhancing the confidence of regulators and society in the quality and safety of products by evaluating the conformity of the product to the requirements of the conformity programs issued by the regulatory authorities (the Ministry of Industry and Advanced Technology and the Abu Dhabi Quality and Conformity Council) and issuing conformity certificates for these products to distinguish their quality and safety.

Specialized Technical Training



Developing and implementing specialized technical training programs for the partners that meet their needs through theoretical and practical training in the multiple CTL Sector laboratories. CTL is implementing its strategy to fulfill the growing testing and conformity assessment needs of its major stakeholders such as government agencies and local industry



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Areas of Lab Testing

KOCIFODE

🥑 vodato

Central Testing Laboratory provides a wide range of laboratory tests for food products, including Chemical, Microbiological and Radiation tests.

Food and Beverage Testing Services



Food and Beverage Tests are an integral part of efficient production and manufacturing processes for safe and high-quality products, and CTL provides analysis and testing services for all kinds of foods using the latest testing methods and technology, in order to identify risk factors and improve the quality and efficiency of these products.

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Pathogenic Microorganisms



Proteins, Vitamins and Carbohydrates





Residual veterinary medicines

Pesticide Residues



Fungal Toxins and Contaminants



Quality of Fats and Oils





Genetically modified foods





Testing meat types, mixing and cheating









Water analyzes are considered one of the analyzes of high importance, considering water is the backbone of life. The analyzes include network water, bottled, unbottled, groundwater, treated water and other types of water to cover all water sources.





Heavy metals and nutrition



Radioactive Material

Organic chemical pollutants



Physical Testing





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Through collaboration with the private sector laboratories, the CTL provides a wide range of laboratory tests for environmental samples including Chemical, Microbiological and Radioactive Testing.

Environment Testing Services



Environmental sample Testing are a public health and safety issue. Chemical, biological and radiological analyzes are increasingly important in this vital area in determining the integrity of soil, air and water. Environmental analyzes are considered one of the most varied and sophisticated analyzes, as some simple concentrations of some substances play a significant impact on the environment and health in general.







الإمــارات The Emirates The scope of building and construction materials testing includes physical and chemical analyses which are provided by CTL and the private sector designated laboratories



معدد الإمارات للمترولوجيا Emirates Metrology Institute

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The Radiation testing capabilities of the Central Testing Laboratory cover food, water and environmental samples while also participating in the emergency plan for the Barakah project.



Radiological pollutants pose potential harm to humans and the environment because of the ability of different radiations to interact with and change substances. In view of the world's nuclear accidents and nuclear weapons tests, and its radioactive pollutants, it was necessary to conduct radiation tests on food, environmental and other substances / products that might reach humans directly or indirectly.





Radiation tests in the water



Coverage of the emergency plan for the Barakah project



Environmental radiation Tests





البمـــارات The Emirates The Central Testing Laboratory provides Metrological verification for several medical devices which include blood pressure monitors, medical syringes, and thermometers

Medical device Testing Services



The CTL provides medical device Testing service to regulators in accordance with the standards and regulations of this field.

Medical Injection sizes



Electrical Thermometers







Infrared Thermometers





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The Central Testing Laboratory also provides testing capabilities that cover pharmaceuticals which include Physical, Chemical and Microbiological analyses.



Medicines and medical material Testing at the CTL provide valuable services including physical, chemical and microbiological analyzes using the US, European or Japanese Pharmacopoeia.

Bacterial toxins In medicines.



The physical properties of Medicines



Impurities and plastics in intravenous needles



Drug efficacy and stability Active substances



Active ingredients in medications and detection of fraud



Impurities in Medicines





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The Central Testing Laboratory provides a wide range of laboratory analysis for different types of packaging and food-contact materials to ensure their compliance with regulations.

Food packaging and contact materials Testing services



The Central Laboratory provides testing of food contact materials and materials used in their packaging to ensure that they comply with locally approved quality and safety standards, and to ensure that they conform to the permitted ratios in the approved specifications as the migration of these substances and their foodtouching molecules may pose a risk affecting consumer safety.

Plastic and non-plastic materials



Material migration



Screening of bacterial resistance to packaging materials and plastic packaging







Cosmetics and personal care products are also tested for compliance with technical regulations in the Central Testing Laboratory

Cosmetic & Personal Care Testing services



Cosmetic Testing Laboratory provides testing and product evaluation services to ensure that beauty products conform to the regulations and legislation adopted for various jurisdictions, for all imported or locally manufactured beauty products.

Microorganisms



Allegations on the product card



Heavy Metals



Allergens









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The Central Testing Laboratory added agricultural analysis to its capabilities which include analysis of soil, water and plant samples

Agriculture Testing Services



Agricultural analyses include analyses of the main elements of agriculture represented in soil, water and plant with a variety of tests in each of these components, as well as Tests related to the agricultural environment in terms of ventilation, temperature as well as additives such as fertilizers and pesticides.







Achievements of the Central Testing Laboratory 'Examples'





Indonesian Ministry of Agriculture appointed in 2017 as certified laboratory for analysis and certification of laboratory tests for fresh food of plant origin from UAE to Indonesia



Accredited Radiation laboratory as a reference laboratory for the analysis of emergency samples for the outer perimeter of the Barakah nuclear power plant is unique in providing radiation-treated food tests at the state and GCC levels.



Maintaining international accreditation of laboratories by transferring the accreditation of the Central Testing Laboratory to the National Accreditation System and adding new testing capabilities to the scope of accreditation.





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Examples of the Central Testing Laboratory achievements include "



Government laboratory in the country, which provides approved screening services to the health sector, from regulatory and regulatory bodies and the private sector



Central laboratory registration by the Food and Agriculture Organization of the United Nations, FAO, as a member of GLOSOLAN Global Soil Laboratories

Selection of the inorganic chemistry lab from the life sciences lab in Abu Dhabi as the regional leader for standardizing work methods for soil investigations in the region



Increasing the number of pesticides that are detected to reach (495) pesticides, and the number of standardized pesticides among the testers reaches (451) pesticides, which is the highest capacity among laboratories in the country



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Examples of the Central Testing Laboratory achievements include "



Delegating test services in the field of building and construction materials and environmental to private sector laboratories and starting to provide these services by the authorized laboratories.



The only laboratory in the country that offers tests for hormones and steroids used for livestock, camels and horses



Cover a full honey profile for physical, chemical, biological, pollutants and radiation tests.



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THANK YOU





نموذج حصر احتياجات الجهات من المختبر المركزي

Form of Entity needs inventory form CTL

| | | | | | | الجهة / Entity |
|-----------------------------------------------------------------------------------------------------|-------------------------|-------------------------------|-----------------------------------------------------------|-------------------------------|------------------------------------|---------------------------------------|
| (اسم الجهة / Entity Name) الاحتياجات من الخدمات الحالية / Current service needs | | | | | | الجهة / Entity |
| | | | | | | |
| | · · · | | مة الفحص / Testing service | | | |
| تواتر طلب الخدمة (يومي/اسبوعي/ شهري) (Frequency of requesting the service- Daily/Weekly/Monthly) | | | | عدد العينات No. of Samples | الفحوصات المطلوبة Test Required | أنواع العينات Type of Samples |
| | (Frequency of rec | Juesting the service- Daily/V | | No. of Samples | | Type of Samples |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | ستشارات / Research, Surveys and Consulting Service | خدمة الأبحاث والمسوحات و الا | | |
| المدة الزمنية للمسح | تواتر العينات | عدد العينات | الفحوصات المطلوبة . | أنواع العينات | عنوان المسح المطلوب | المسوحات المطلوبة |
| Duration | Frequency of Requesting | No. of Samples | Test Required | Type of Samples | Title of Survey | کمیتونی کرتی کردی Surveys Required |
| | | | 1 | | , | |
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| | | | ث المطلوبة / Studies / Research required | الدراسات/الأبحاء | | |
| المدة الزمنية للدراسة | تواتر العينات | عدد العينات | الفحوصات المطلوبة . | أنواع العينات | عنوان الدراسة المطلوب | الدراسات/الأبحاث المطلوبة |
| Duration | Frequency of Requesting | No. of Samples | Test Required | Type of Samples | Type of Study | Studies Required |
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| | | | | | | |
| | | | ه المتوفرة / Specialized Training in the available fields | التدريب التخصصي في المجالات | | |
| | | | وقت التدريب (الربع الأول/الثاني،) | عدد المتدربين | الهدف من التدريب | التدريب المطلوب |
| | | | Time to get Training (Q1/Q2/Q3/Q4) | No. Of Trainees | Aim of Training | Training Required |
| | | | | | | |
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THANK YOU

