

Hong Kong Council for Testing and Certification

Report for 2016-17



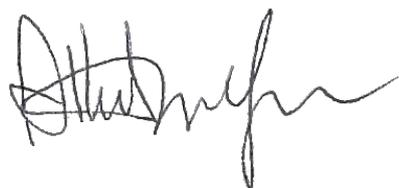
Foreword

I am pleased to report the latest available statistics of the testing and certification industry and major achievements of the Council during the period from April 2016 to March 2017.

2. During the period, the Council had reviewed the work of its Panels in promoting testing and certification services in specific trades. We decided to take a focused yet flexible approach. Two Panels were re-convened to deal with matters relating to Chinese medicines and construction materials. Apart from reviewing its meeting structure, the Council also stepped up its efforts in raising public awareness of testing and certification in Hong Kong. In this connection, we collaborated with Hong Kong Association for Science and Mathematics Education and the Hong Kong New Generation Cultural Association. Competitions were held for students as a means to highlight the significance of testing and certification in our daily lives and in innovation and technology. Regarding promotion outside Hong Kong, we continued to participate in different trade fairs. We doubled our efforts by setting up a booth at the renowned Spielwarenmesse International Toy Fair in Nuremberg, Germany for the first time. In addition, as a new initiative, testing and certification bodies and the Council jointly promoted Hong Kong's testing and certification services at both the China Hi-Tech Fair in Shenzhen and the Spielwarenmesse International Toy Fair.

3. The Government has continued to work closely with the Council to support the development of the testing and certification industry. In 2016, two funding schemes were launched and testing and certification bodies may benefit from them. The Council welcomes the Technology Voucher Programme and the Professional Services Advancement Support Scheme and hopes that the sector could make good use of these new funding sources.

4. Finally, I would like to express the Council's gratitude to everyone who supported our work in the past year and I look forward to another fruitful year by continuing to work with the industry, concerned trades, and the Government.



Professor YU Cheung-hoi, Albert
Chairman

Hong Kong Council for Testing and Certification
26 April 2017

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Abbreviations Used

| | |
|-------|--|
| APLAC | Asia Pacific Laboratory Accreditation Cooperation |
| CEPA | Mainland and Hong Kong Closer Economic Partnership Arrangement |
| CMM | Chinese Materia Medica |
| GAC | GCC Accreditation Center |
| GAHK | The Gemmological Association of Hong Kong |
| GCC | Cooperation Council for the Arab States of the Gulf |
| GSO | GCC Standardization Organization |
| GZTV | Guangzhou TV |
| HD | Higher Diploma |
| HKAS | Hong Kong Accreditation Service |
| HKPC | Hong Kong Productivity Council |
| HKSP | Hong Kong Science Park |
| HKTDC | Hong Kong Trade Development Council |
| IEC | International Electrotechnical Commission |
| ISO | International Organization for Standardization |
| ITC | Innovation and Technology Commission |
| ITF | Innovation and Technology Fund |
| OUHK | The Open University of Hong Kong |
| PASS | Professional Services Advancement Support Scheme |
| SME | Small and Medium Enterprises |
| TVP | Technology Voucher Programme |
| VTC | Vocational Training Council |

International Standards Mentioned

| |
|--|
| ISO 14064 series - Greenhouse Gas Quantification, Validation and Verification |
| ISO 17034 - General Requirements for the Competence of Reference Material Producers |
| ISO/IEC 17065 - Conformity Assessment -- Requirements for Bodies Certifying Products, Processes and Services |
| ISO/IEC 27001 - Information Security Management System |
| ISO 50001 - Energy Management System |

I. HONG KONG COUNCIL FOR TESTING AND CERTIFICATION

- A non-statutory advisory body
- Current Chairman: Professor YU Cheung-hoi, Albert
- Annex 1 & 2 ➤ Terms of reference and membership list at *Annex 1* and *Annex 2*
- Established in 2009 by the Government
- March 2010: published a three-year industry development plan
- March 2013: published a review report which re-affirmed the strategy developed in 2010 and set out new recommendations

OUR VISION

To develop Hong Kong into a testing and certification hub in the region by reinforcing the branding of 'Tested in Hong Kong, Certified in Hong Kong'.

OUR ROLE

- Act as a focal point of contact among all stakeholders, including the testing and certification industry itself, the related industries, providers of supporting services, etc.
- Assist the industry to explore new business opportunities.
- Coordinate effort by the industry to best dovetail Government policy objectives.
- Promote acceptance of Hong Kong's testing/inspection reports and certificates by overseas/Mainland governments.
- Enhance manpower development and professionalism in the industry.

OUR STRATEGY

Market-oriented dual approach to promote the development of the testing and certification industry –

Making general improvements to the accreditation and factors of production while focusing particular attention on specific trades with good potentials in using testing and certification services.

II. INDUSTRY PROFILE (2015 FIGURES¹)

Number of Establishments

There were 745 establishments in Hong Kong engaging in testing, inspection and certification activities in 2015, of which 640 were private independent establishments –

| Category | Number |
|---|------------|
| Private independent establishments engaging in testing, inspection and certification activities as their major economic activity | 640 |
| Manufacturers and exporters engaging 100 persons or more and with in-house laboratories for testing activities | 50 |
| Laboratories in government departments/public organisations (including those in the hospitals of the Hospital Authority and those accredited by Hong Kong Accreditation Service (HKAS) in local universities) | 55 |
| Total | 745 |

Size of Private Independent Establishments

2.2 The vast majority (94%) of the private independent establishments were small and medium enterprises engaging fewer than 50 persons. They accounted for 28% of the total persons engaged and 31% of the total business receipts in the industry. Twenty-four establishments engaging 100 persons or above accounted for the majority of employment and business receipts – 64% of the persons engaged and 63% of the total business receipts in the industry.

Persons Engaged

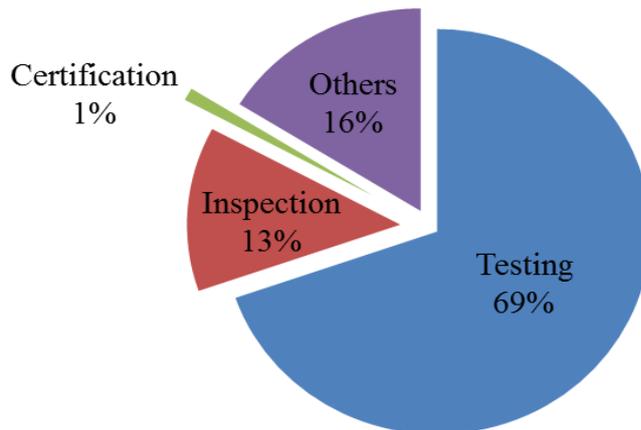
2.3 The number of persons engaged in testing, inspection and certification activities was 17 590 in 2015, of which 13 610 persons were engaged by private independent establishments. About 6 360 (47% of 13 610) were professionals and associate professionals whose main duties

¹ Based on a survey conducted by the Census and Statistics Department in Hong Kong.

were to provide testing, inspection and certification services.

Business Receipts

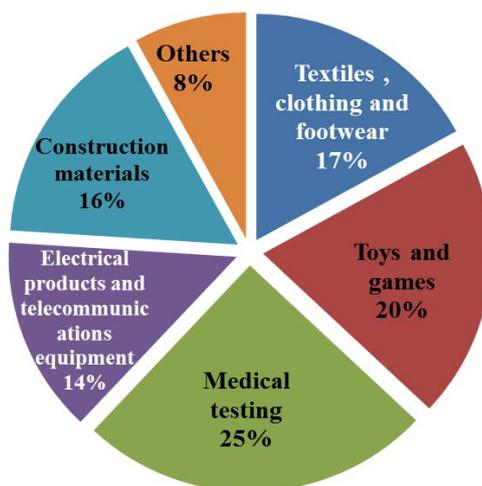
2.4 The total business receipts of private independent establishments in the industry were \$14.0 billion in 2015. The direct economic contribution to Hong Kong's Gross Domestic Product was \$7.0 billion. Breakdowns of the business receipts are shown below:



2015

Business receipts by type of services

(Note : Percentages add up to lower than 100% due to rounding.)



2015

Further breakdowns of business receipts from testing services

III. IMPROVEMENTS ON THE GENERAL FRONT

Efforts for improvements on the general front cover two major aspects – accreditation service and factors of production of the testing and certification industry. The work of this Council and other relevant stakeholders on these two aspects are set out below.

Accreditation Service

3.2 The accreditation service provided by Hong Kong Accreditation Service (HKAS) under the Innovation and Technology Commission (ITC) is essential to the local testing and certification industry. In 2016-17, HKAS extended its accreditation service to conformity assessment bodies undertaking the following activities –

- (a) certification of quality management system and environmental management system for water supply; and
- (b) construction product certification on paint products and aggregate for concrete.

3.3 To ensure high professional standards in delivering accreditation service, HKAS arranged a number of training workshops and courses to its staff in 2016-17 to assist them in acquiring the skills necessary for the new accreditation services. In early 2016, HKAS officers attended a series of training and seminars on ISO 50001 and ISO/IEC 17065 to gain more understanding on energy management system certification and product certification respectively. Several officers also attended an Asia Pacific Laboratory Accreditation Cooperation (APLAC) Workshop on Reference Material Producer and Proficiency Testing Provider Accreditation conducted in Hong Kong in November 2016 in order to obtain first-hand information on the recently published ISO 17034 standard and other relevant international guidelines.

3.4 As at March 2017, there were 264 organisations accredited by HKAS. The following table sets out the breakdown and changes from the year before –

| Accreditation Scheme of HKAS | Number of Accredited Organisations | | |
|---|------------------------------------|------------|--------|
| | March 2016 | March 2017 | Change |
| Hong Kong Laboratory Accreditation Scheme | 212 | 220 | +3.8% |
| Hong Kong Inspection Body Accreditation Scheme | 20 | 20 | 0% |
| Hong Kong Certification Body Accreditation Scheme | 24 | 24 | 0% |
| Total | 256 | 264 | +3.1% |

3.5 HKAS also regularly reviews and updates accreditation criteria documents to assist accredited organisations to operate in accordance with new accreditation and technical standards.

Enhancement to Factors of Production

Manpower

3.6 On manpower, students and practitioners are the main targets of our efforts. For the former, the goal is to raise their interest and awareness. For the latter, the goal is to enhance their capacity.

Students

3.7 In 2017-18 –

- (a) The Council organised 18 career talks and six laboratory visits for university and secondary students, and set up promotional booths on five career days with support from HKAS and industry practitioners. The Vocational Training Council (VTC) also organised seven career talks and seven visits to testing laboratories for its students in Higher Diploma (HD) programmes relevant to testing and certification;



Career Talk and Career Booth for Students

- (b) The Council continued to co-ordinate internship opportunities. Accredited organisations offered more than 100 internship places for Summer 2016, and the offers were relayed to VTC and local universities, as well as uploaded our website for students' information.

Many accredited organisations have now established contact with educational institutions and arranged internship placement direct after joining the programme co-ordinated by the Council. For example, VTC has separately organised industry attachment programmes and internships for its students of HD programmes relevant to testing and certification. We note that there is still a demand for internship places co-ordinated by the Council as evidenced by the number of places available in 2016. In January 2017, we again invited accredited organisations to provide internship opportunities for Summer 2017;

- (c) one visit to testing laboratory was organised for chemistry teachers at secondary schools in coordination with Education Bureau;
- (d) HKAS delivered seven technical talks to introduce the concepts of accreditation, testing and certification and the career prospects in the industry to students of tertiary education institutions; and
- (e) the Council launched a teaching kit for use by senior secondary chemistry teachers in June 2016. The purpose is to raise the awareness of testing and certification among secondary students through introducing basic chemical testing concepts in class. The kit and demonstration videos are now available for download on our website².

3.8 Graduates from many academic disciplines are qualified to take up entry level positions in testing and certification bodies. While there were undergraduate academic programmes that touch on testing and certification, none of them was dedicated to this discipline and they did not provide comprehensive knowledge to prepare students for the job. This changed in 2013 when the Open University of Hong Kong (OUHK) launched Hong

² Teachers' Guide: http://www.hkctc.gov.hk/en/doc/Teaching_Kit_Teachers_Guide_Eng.pdf
Student Laboratory Manual:
http://www.hkctc.gov.hk/en/doc/Teaching_Kit_Student_Manual_Eng.pdf

Kong's first full-time four-year undergraduate programme dedicated to testing and certification. The first batch of graduates is expected in 2017. With the support of ITC, the Government's Study Subsidy Scheme for Designated Professions/ Sectors continued to provide subsidy to students of this self-financing academic programme in 2016-17. As announced in the Chief Executive's Policy Address in January 2017, this subsidy scheme will be regularised. Technological and Higher Education Institute of Hong Kong, a member of the VTC Group, is also planning to launch a new full-time top-up bachelor degree programme in testing and certification.

3.9 VTC is an important source of manpower supply to the industry. Nine HD programmes in disciplines relevant to testing and certification were offered in the 2016-17 academic year, with a total intake of 658 students. More than 480 students graduated in 2016. Since the launching of Earn & Learn Pilot Scheme for Testing and Certification Industry in 2015, 30 students in the relevant HD programme have enrolled in the scheme to receive on-the-job training in a local testing laboratory as apprentice with income and allowance provided by the employer and Government. The scheme can address the learning and practical needs of the students and provide solid manpower support to the testing and certification industry.

Practitioners

3.10 The Council, HKAS, VTC and the Government Laboratory organised more than 50 seminars, workshops, short courses and other training events for practitioners in the testing and certification industry in 2016-17.



Seminars

Capital and Technology

3.11 The Hong Kong Productivity Council (HKPC) and the Hong Kong Science Park (HKSP) jointly launched the 'Lab Test One' initiative in 2013. It enables private testing laboratories to identify and use laboratory facilities and equipment at HKPC and HKSP for a reasonable fee. A digital promotion platform comprising a dedicated website and a mobile application was established in 2015 to facilitate the local industry to access the full spectrum of services under 'Lab Test One' in one click. The Lab Test One mobile app was added to Government Mobile Applications page and GovHk Apps (政府 App 站通) in April 2016. In 2016-17, 'Lab Test One' covered 37 laboratories including ITC's Standards and Calibration Laboratory, and other local non-commercial laboratories in universities, non-government organisations, and Research and Development Centres set up by the Government. This initiative has facilitated easier access to advanced equipment by the private sector. For example, 55% of the operation time of the HKPC's electromagnetic compatibility anechoic chamber was used by private laboratories. To further promote the shared facilities, HKPC and the HKSP jointly organised two seminars cum laboratory visits for the industry.

3.12 Proficiency testing is crucial for the upholding of technical capability of our laboratories. In 2016-17, the Government Laboratory continued to provide support and organised safety testing on boric acid in food and propionic acid in flour confectionery, and a forensic science testing on stamp impressions examination. It also collaborated proficiency testing programme with APLAC on the testing of organochlorine pesticides in ginseng root and elements in food supplement.

3.13 In November 2016, the ITC launched the Technology Voucher Programme (TVP) with \$500 million from the Innovation and Technology Fund (ITF). TVP aims to subsidise local small and medium enterprises (SME) in using technological services and solutions to improve productivity, or upgrade or transform their business processes. Testing and certification bodies which are locally registered SMEs and fulfill other conditions under the programme are eligible to apply. Other SMEs which intend to fulfill certain certification requirements by some technological services and solutions may also apply.

3.14 The Commerce and Economic Development Bureau launched the Professional Services Advancement Support Scheme (PASS) in November

2016. The purpose of PASS is to provide funding support for non-profit-making industry-led projects aimed at increasing the exchanges and co-operation of Hong Kong's professional services with their counterparts in external markets and organising relevant publicity activities. Funding of up to 90 per cent of the total eligible project cost, or \$3 million, whichever is the lower, will be provided to successful applicants. Technical testing and analysis is an eligible service sector under PASS. The first round of application ended on 28 February 2017.

Land

3.15 As reported last year, the Chief Executive announced in his Policy Address in 2016 that the Government would implement the 'Nil Waiver Fee' measure on 1 February 2016. Owners of industrial premises can apply to Lands Department for a waiver of lease conditions in order to accommodate testing and calibration laboratories and successful applicants are not required to pay the concerned waiver fee.

3.16 As at the end of 2015 (latest available figure), the vacant floor area in private properties that may accommodate testing and certification organisations was about 2.63 million square metres, representing about 6.6% of all industrial and commercial premises in Hong Kong.

3.17 The Council will continue to stay alert of various development plans of the Government that may offer potential space to the testing and certification industry in future.

IV. SPECIFIC TRADES

It is the Council's strategy to promote testing and certification services in specific trades with good potential. To this end, the Council, with the experience gained in previous years, decided in late 2016 that it would continue with this strategy by adopting a more focused yet flexible approach. Panels on promoting testing and certification services in Chinese medicines and construction materials trade were re-convened in early 2017. Their membership lists are at *Annex 3*.

Annex 3

4.2 Where necessary, the Council will convene meetings or working groups to deal with issues arising from the promoting of testing and certification services in environmental protection, food, information and communication technologies, as well as the jewellery sectors.

4.3 Matters requiring attention during the last term are set out below.

Development and Promotion of New Testing and Certification Services

4.4 With funding support from ITF, HKPC developed a product certification scheme for Chinese Materia Medica (CMM). It was launched in November 2014, and two certificates were awarded to two batches of CMM in 2015. In response to feedback from stakeholders, the Council is exploring possible options to improve the scheme so that more Chinese medicines traders would be willing to use it.

4.5 The Hong Kong Housing Authority plays a leading role in taking forward the development of construction materials product conformity certification schemes. As at March 2017, the Authority required product certification for 11 types of construction materials/building components.³ By the end of year 2016-17, HKAS has accredited six certification bodies for product certification for 12 types of construction materials/building components.

4.6 With support from the Council, the Gemmological Association of Hong Kong (GAHK) has completed the development of standard testing methods for *Fei Cui* (翡翠, or commonly referred to as 'jade'). The

³ The 11 building products are timber doorsets (fire rated doors) & panel wall for partitions, concrete, cement products (for architectural uses), tile adhesives, ceramic tiles (floor tiles and wall tiles), repair mortars, aluminum windows, uPVC drainage pipe and fitting, close-coupled water closet suites, mesh reinforcement as well as LED lighting products.

standard was published in March 2017.

Enhancement of Technical Capabilities

4.7 With the support of the Government Laboratory, the Council coordinated the third round of proficiency testing programme for assay of five CMM⁴ from April to December 2016. Twelve local laboratories and one from Shenzhen participated. Through the exercise, participating testing laboratories were able to assess their own technical competence by comparing testing results with other laboratories.

4.8 We also organised a part-time course on microscopic examination of CMM based on Hong Kong CMM Standards from April to June 2016. Eleven persons completed the course.

4.9 The ITF supported a study on the development of classification for the testing of 19 CMM. The study, which was carried out by six local universities, was completed in January 2017. The study findings would facilitate laboratories in conducting proficiency tests on the CMM concerned, thus help enhance their testing capabilities.

Sharing of Knowledge and Promotion

4.10 The Council continued to facilitate the sharing of knowledge among relevant parties and organised different seminars for this purpose during the past year. For example, seminars were held on ISO/IEC 27001 Information Security Management System certification services, food testing and certification, environmental testing, carbon audit and ISO 14064 Greenhouse Gas Quantification, Validation and Verification. Participants of those seminars include testing and certification bodies, users/ potential users of their services, academics and students, and speakers shared the latest developments on different fronts with the audience. Apart from seminars, we also disseminated relevant information to testing and certification bodies to bring them up to date on topics that they might be interested, such as the availability of the TVP and its details, the latest development of certifications relating to e-business and cross-border e-commerce on the Mainland.

⁴ The five CMM covered in proficiency testing programme 2016 are : Croci Stigma (西紅花), Cinnamomi Cortex (肉桂), Dendrobii Officinalis Caulis (鐵皮石斛), Fritillariae Cirrhosae Bulbus (川貝母) and Rhizoma Gastrodiae (天麻).

4.11 We also place emphasis on raising awareness of other professionals in the latest development of testing and certification. For the first time, the Council arranged a session on Laboratory Accreditation and Environmental Testing during the annual training programme for Engineering Graduates employed by the Government in 2016. In March 2017, a seminar on environmental testing and certification was also arranged for engineers in collaboration with the Hong Kong Institution of Engineers.

4.12 The Council offers briefings for different organisations to enhance their knowledge on testing and certification. For example, we briefed different public bodies about the potential benefits and requirements of ISO/IEC 27001 Information Security Management System certification during the past few years and will continue to do so. In addition, as a result of our discussion with the Stock Exchange of Hong Kong Limited, it included reference to testing and certification bodies in its consultation with the stakeholders on Environmental, Social and Governance Reporting Guide in 2015. Subsequently, the Guide was promulgated in 2016 requiring listed companies to report their environmental, social and governance information on a ‘comply or explain’ basis annually, covering, inter alia, information on greenhouse gas emissions, which may bring new business opportunities to testing and certification bodies.

V. SEEKING WIDER RECOGNITION OF HONG KONG'S ASSESSMENT RESULTS

International and Regional Participation

HKAS has been participating actively in the international accreditation community and is a member of different international organisations. In June 2016, the Executive Administrator, HKAS was elected at the APLAC General Assembly as the Chairman of APLAC. He was also appointed as a member of the Executive Committee of the International Laboratory Accreditation Cooperation that administers the global multilateral mutual recognition arrangement. This is an essential part of HKAS's continued effort to promote wider recognition of conformity assessment results issued by accredited testing and certification bodies in Hong Kong, and underlined the status of HKAS in the international arena. In 2016-17, HKAS also contributed six articles to the newsletters of these organisations.

5.2 Through the multilateral mutual recognition arrangements administered by international and regional accreditation cooperations, endorsed reports and accredited certificates issued by HKAS's accredited organisations are recognised by 94 accreditation bodies in 94 economies, including Hong Kong's major trading partners. HKAS has applied to extend its Pacific Accreditation Cooperation Multilateral Recognition Arrangement to cover accreditation of energy management system certification in December 2016.

5.3 In May 2016, HKAS and the GCC⁵ Accreditation Centre (GAC) and the GCC Standardization Organization (GSO) jointly organised a half-day seminar on the GCC Technical Regulations, Notified Bodies and Conformity Assessment Procedures for Toys and Low Voltage Products. Subsequently, HKAS met with GSO and GAC representatives to discuss means to enhance cooperation in the assessment of local conformity assessment bodies for appointment as notified bodies under the GCC regulatory framework. In November 2016, the Executive Administrator of HKAS was invited to speak at the 4th GCC Laboratory Proficiency Conference.

5.4 HKAS officers attended the 2016 tripartite meeting of the Mainland, Taiwan and Hong Kong held in Xining, China in September 2016. The

⁵ GCC stands for the Cooperation Council for the Arab States of the Gulf.

meeting included discussion and sharing of experience in the accreditation of medical testing as well as inspection.

CEPA

5.5 The Agreement on Trade in Services (the Agreement) under CEPA covers and consolidates commitments provided in CEPA and its Supplements and also the Agreement between the Mainland and Hong Kong on Achieving Basic Liberalisation of Trade in Services in Guangdong (the Guangdong Agreement). The Agreement also introduces, on a pilot basis, a mutual recognition arrangement of certification and relevant testing business among Guangdong, Hong Kong and Macao in the China (Guangdong) Pilot Free Trade Zone, with a view to carrying out ‘certified once, tested once, and results accepted by three places’. The implementation guide of the Agreement is under preparation.

VI. PROMOTION

The Council has continued to promote ‘Tested in Hong Kong, Certified in Hong Kong’ to potential service users. In 2016-17, we set up booths in 15 trade fairs in Hong Kong, three in the Mainland and two overseas. As a new initiative, we invited testing and certification bodies to join our promotion booths at the China Hi-Tech Fair in Shenzhen in November 2016 and Spielwarenmesse International Toy Fair in Nuremberg, Germany, in February 2017 with a view to enriching the content of our exhibits and providing additional opportunities for Hong Kong’s testing and certification bodies. It is also the first time that the Council joined Spielwarenmesse, which is the largest toy fair in the world, and BIO Convention in California. We will review the arrangements upon receipt of participants’ feedback and consider the trade fairs to be included in the coming year. We will also continue to invite testing and certification bodies to participate in local trade fairs.

6.2 During the year, the Hong Kong Trade Development Council (HKTDC) also helped the promotion of Hong Kong's testing and certification services by displaying promotional materials at 20 trade fairs outside Hong Kong. With the assistance of HKTDC and Hong Kong Association for Testing, Inspection and Certification, we arranged eight seminars and a laboratory visit to promote testing and certification services to buyers and manufacturers attending HKTDC's local trade fairs.

6.3 In addition to participation in trade fairs, the Council extended the promotion of Hong Kong’s testing and certification services to the Mainland. The Hong Kong Trade and Economic Development Office in Guangdong has engaged Guangzhou TV (GZTV) to produce a series of stories featuring Hong Kong under the theme of ‘Same Root Same Heart’ on GZTV’s G4 programme (新聞日日睇). A three-minute episode was broadcasted in December 2016 to introduce the strengths of Hong Kong’s testing and certification services.

6.4 In November 2016, we set up promotion booths at both the InnoCarnival held in the HKSP and the Water Conservation Week held in the Hong Kong Polytechnic University to introduce testing and certification services to students and the general public. The booths featured interactive games and displays, attracting around 5,000 visitors. To raise the industry profile, a series of 20 full or half-page advertorials were arranged in Chinese and English newspapers and magazines in 2016-17. As a new initiative, a

weekly column was published in a local newspaper for 40 weeks to promote knowledge in testing and certification to the public and arouse their interest. Photos of the efforts in promotion of testing and certification services are at

Annex 4 *Annex 4*.

6.5 To raise students' awareness of the importance of testing and certification services in our daily life, 'Testing Science in Everyday Life' was chosen as the theme of the Digi-Science Video Competition 2016-17 organised by the Hong Kong Association for Science and Mathematics Education in collaboration with the Council. The competition received 46 entries from 36 schools. The award presentation ceremony will be held in April 2017. In collaboration with the Hong Kong New Generation Cultural Association, a new award was added to the Hong Kong Youth Science and Technology Innovation Competition for the best entries relevant to testing. Three winning school teams were selected from the finalists. The award presentation ceremony was held in March 2017. All finalists will be invited to visit a testing laboratory in Hong Kong.

VII. SUPPORT TO THE COUNCIL

Secretariat Support

The Secretariat of the Hong Kong Council for Testing and Certification (the Secretariat) serves as the executive arm of the Council. It comprises 11 civil service establishments set up on a permanent basis under ITC. The organisation chart of the Secretariat is set out at *Annex 5*.

Annex 5

Resources

7.2 The Government provides financial support to the Council in the implementation of its initiatives. In 2016-17, the expenditure was approximately \$5,700,000 (excluding staff emolument⁶). About 70% of the expenditure was spent on setting up booths in trade fairs and InnoCarnival 2016, as well as placing advertorials on newspapers and other publications. The remaining amount was used to organise seminars on various topics to enhance professional standard in the industry, e.g. testing and certification of construction materials, accreditation for medical laboratories, integrity management, as well as other initiatives.

⁶ All personal emoluments and personnel related expenses of the staff in the Secretariat are met by the ITC from its recurrent operating expenditures.

**Terms of Reference of
Hong Kong Council for Testing and Certification**

To advise the Chief Executive on –

- (a) the overall development strategy of the industry;
- (b) new business opportunities worth exploring for the industry, having regard to latest developments in the Mainland and overseas markets; and
- (c) measures needed to raise the professional standing and community awareness of the industry.

**Membership List of
Hong Kong Council for Testing and Certification**

Chairman

Professor YU Cheung-hoi, Albert

Members

Ir CHAN Kin-sek, Raymond

Mr CHAN King-wa, Felix

Mr CHAN Wai-fung, Raymond

Dr CHOY Wai-fun, Priscilla

Ir HO Chi-shing

Professor HO Kin-chung

Mr HSU Tsun-fai, Marvin

Mr KO Kwok-on, Andy

Ms NARDI Kar-wai, Agnes

Dr SHUM Wan-lung, Aaron

Mr TONG Shing-jing, John

Professor YAM Wing-wah, Vivian

Mr YEUNG Chi-wah, Harry

Mr YU Kwok-wai, Mickey

Dr YUNG Wai-hung, Raymond

Executive Director of Hong Kong Productivity Council or representative

Executive Director of Hong Kong Trade Development Council or representative

Executive Director of Vocational Training Council or representative

Government Chemist or representative

Commissioner for Innovation and Technology or representative

Membership List of Panels

- (a) Panel on Promoting Testing and Certification Services in Chinese Medicines Trade

Convener

Dr LAI Fook-ming, Lawrence

Members

Dr CHOY Wai-fun, Priscilla

Ms CHUAH Ah-poh, Anne

Dr HAN Quan-bin, Simon

Dr HO Chi-ming, Ricky

Mr KO Kwok-on, Andy

Mr LI Ying-sang, Tommy

Professor LIN Zhi-xiu

Dr MOK Kam-wah, Daniel

Mr TSANG Chiu-hing

Professor TSIM Wah-keung, Karl

Dr Albert WONG

Mr WONG Cho-hang, Stanley

Ms WONG Suet-ying, Alice

Secretary-General of Hong Kong Council for Testing and Certification

Representative of Department of Health

Representative of Government Laboratory

Representative of Hospital Authority

Representative of Hong Kong Productivity Council

Representative of Hong Kong Trade Development Council

Representative of Vocational Training Council

(b) Panel on Promoting Testing and Certification Services in Construction Materials Trade

Convener

Professor KWAN Kwok-hung, Albert

Members

Mr AU YEUNG Chi-king, Artur

Ir CHAN Kin-sek, Raymond

Mr CHAN King-wa, Felix

Mr CHAN Woon-man, Wilman

Professor CHUNG Kwok-fai

Mr HO Kin-fung, Samson

Mr HUANG Jian-min

Mr LEE Wai-kwok, Michael

Mr LEUNG Hon-chuen, Willie

Professor LEUNG Kin-ying, Christopher

Ir Dr LI Chi-leung, Welkin

Mr LINN Hon-chung, Ambrose

Dr LO Yiu, Tommy

Mr TSIEH Chi-kong, Joseph

Mr WONG Tin-cheung, Conrad

Secretary-General of Hong Kong Council for Testing and Certification

Representative of Development Bureau

Representative of Architectural Services Department

Representative of Buildings Department

Representative of Construction Industry Council

Representative of Housing Department

Representative of Hong Kong Productivity Council

Representative of MTR Corporation

Representative of Vocational Training Council

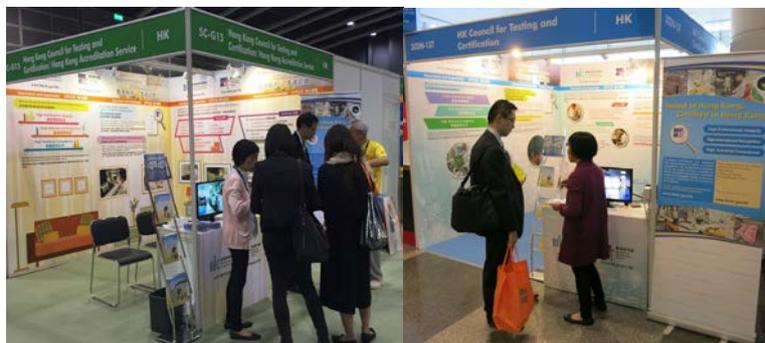
Efforts of Hong Kong Council for Testing and Certification to Promote Hong Kong's Testing and Certification Industry



InnoCarnival 2016



Water Conservation Week



Trade Fairs in Hong Kong



China Hi-Tech Fair



Spielwarenmesse International Toy Fair

香港檢測及認證行業 優質服務 優勢所在

香港檢測及認證行業發展迅速，專業服務，一直以來均獲各界肯定。隨著消費者對產品質素的要求日益提高，檢測及認證行業在保障產品質素及消費者權益方面，扮演著至關重要的角色。本欄會一一介紹檢測及認證行業的運作，並為消費者提供有關產品質素、消費者權益、及消費者委員會的資訊。

嚴格測試認證 具備國際認可

香港檢測及認證行業的運作，是根據國際標準及專業規範。所有檢測及認證機構，均須符合國際標準，並獲得國際認可。這確保了檢測及認證結果的準確性、公正性及權威性。消費者在選擇檢測及認證機構時，應留意其是否獲得國際認可，以確保其服務質素。

推行測試的優勢

消費者在購買產品時，應留意產品的標籤，並留意產品的質素。消費者應選擇具有國際認證標誌的產品，以確保產品的質素。此外，消費者應留意產品的來源，並選擇信譽良好的品牌。消費者應留意產品的標籤，並留意產品的質素。消費者應選擇具有國際認證標誌的產品，以確保產品的質素。此外，消費者應留意產品的來源，並選擇信譽良好的品牌。

消費者委員會 CONSUMER COUNCIL

消費者委員會是香港的一個獨立機構，旨在保護消費者的權益。消費者委員會提供有關產品質素、消費者權益、及消費者委員會的資訊。消費者委員會亦提供有關產品質素、消費者權益、及消費者委員會的資訊。消費者委員會亦提供有關產品質素、消費者權益、及消費者委員會的資訊。

香港檢測 · 香港認證

平日選購產品時，相信大家都重視產品的質素和安全。但究竟怎樣才能確定產品的成分和含量，或者產品是否符合相關的標準和法定要求呢？產品包裝說明和標籤上的資料是怎樣得來的呢？

要知道產品是否符合相關規格，就要由產品進行測試、檢驗或認證。香港的檢測和認證服務與日常生活息息相關，無論你吃的蔬菜有沒有農藥，你穿的衣服有沒有含致敏原成分，你用的電腦是否安全，都要靠檢測和認證服務找出結果。檢測和認證在生活不同層面都擔當重要角色，本欄會一一介紹檢測和認證的知識，讓大家可以了解檢測認證與生活的關係，逢周二刊出。

香港的檢測和認證業是優勢產業之一，多年來，憑藉健全的認可制度、卓越的專業水平及優良聲譽，已在本地建立了穩固基礎。為推動行業的發展，政府在2009年成立了香港檢測及認證局，作為非法定諮詢組織，負責就推動行業發展的整體策略向政府提供意見。該局成員主要來自業界及與業界關係密切的界別。

HKCTC 香港檢測及認證局
The Hong Kong Centre for Testing and Certification
www.hkctc.gov.hk

Safety First 安全至上

Safety is always the top priority for manufacturers and sellers of toys and children's products. Hong Kong's testing and certification industry plays a key role in ensuring the Hong Kong's exports of toys and children's products meet the multiple of export safety standards worldwide.

玩具及兒童產品製造商及經銷商，安全始終是首要考慮。香港檢測及認證行業在確保香港出口的玩具及兒童產品符合全球多項出口安全標準方面，扮演著至關重要的角色。

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獲認可醫務化驗服務 提升市民信心

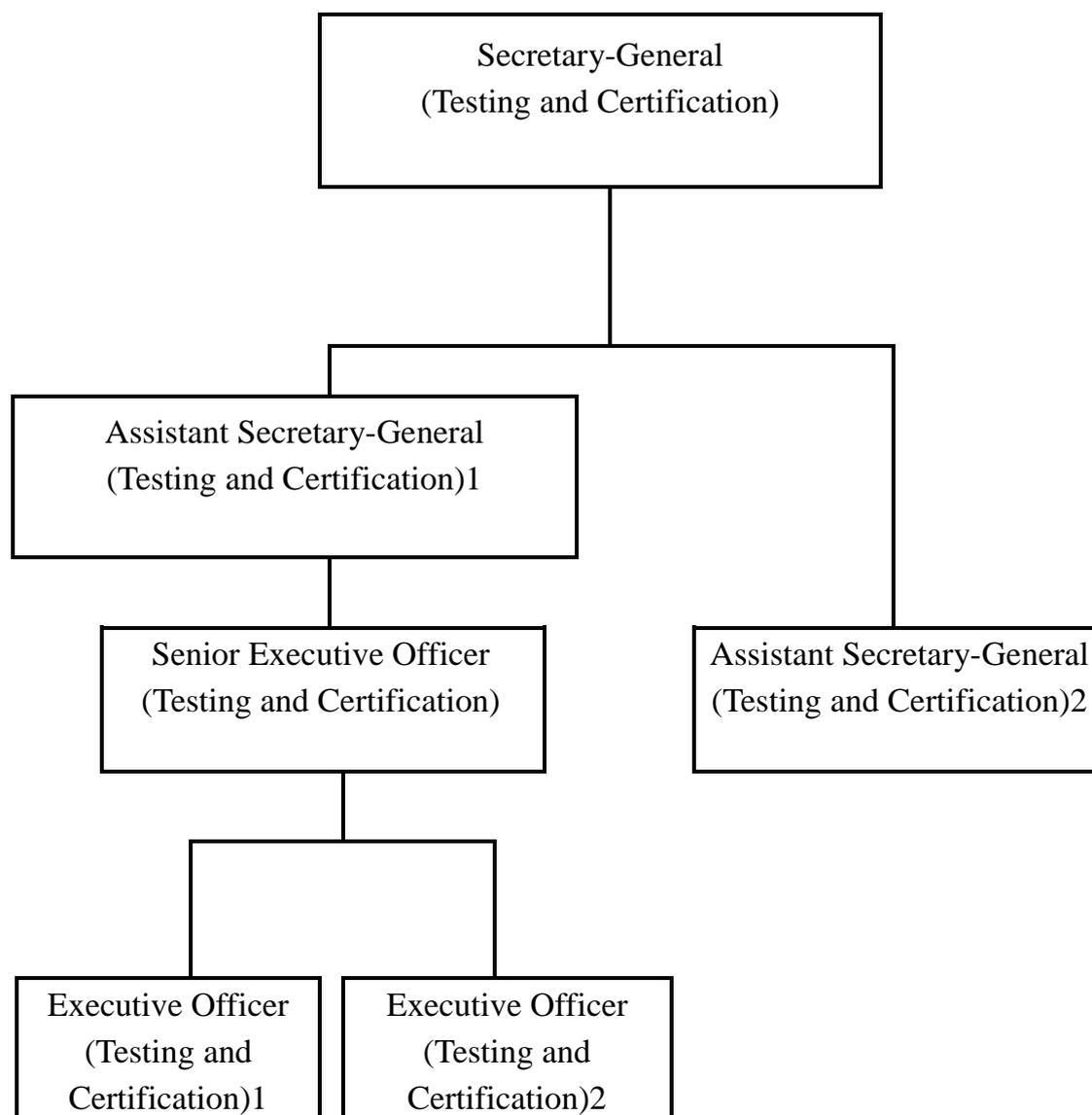
醫務化驗服務是市民健康保障的重要一環。市民在選擇醫務化驗服務時，應留意該服務是否獲得認可。獲認可的醫務化驗服務，其測試結果更為準確、可靠，可為市民提供更有保障的醫務化驗服務。

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Promotion of Testing and Certification on Local Newspapers and Magazines

**Organisation Chart of
the Secretariat of the Hong Kong Council for Testing and Certification
(as at 31 March 2017)**



- In addition, there are five civil servants providing clerical and secretarial support.