



香港學術及職業資歷評審局
Hong Kong Council for Accreditation of
Academic & Vocational Qualifications

SUMMARY ACCREDITATION REPORT

**TECHNOLOGICAL AND HIGHER EDUCATION INSTITUTE
OF HONG KONG,
VOCATIONAL TRAINING COUNCIL**

LEARNING PROGRAMME ACCREDITATION

**BACHELOR OF SCIENCE (HONOURS)
IN TESTING AND CERTIFICATION**

FEBRUARY 2017

This accreditation report is issued by the Hong Kong Council for Accreditation of Academic and Vocational Qualifications (HKCAAVQ) in its capacity as the Accreditation Authority as provided for under the Accreditation of Academic and Vocational Qualifications Ordinance (Cap 592) (AAVQO). This report outlines the HKCAAVQ's determination, the validity period of the determination as well as any conditions or restrictions on the determination.

1. Introduction

- 1.1 THEi, established in 2011, is a member institution of the VTC. It was granted Institutional Review status by HKCAAVQ in September 2012. It mainly offers vocationally-oriented self-financed degree programmes. Currently, it offers 20 accredited bachelor degree programmes and two professional diploma programmes in various disciplines. The Programme is hosted by the Department of Food and Health Science in the Faculty of Science and Technology.
- 1.2 HKCAAVQ was commissioned by THEi to conduct a learning programme accreditation exercise with the following Terms of Reference:
 - (a) To conduct an accreditation test as provided for in the AAVQO to determine whether the Bachelor of Science (Honours) in Testing and Certification programme of THEi meets the stated objectives and the Hong Kong Qualifications Framework (QF) standard and can be offered as an accredited programme from the 2017/18 academic year; and
 - (b) To issue to THEi an accreditation report setting out the results of the determination in relation to (a) by HKCAAVQ.
- 1.3 The accreditation exercise was conducted according to the relevant accreditation guidelines referred to in the Service Agreement and the Terms of Reference stated therein. A site visit took place on 15-16 December 2016.

2. HKCAAVQ's Accreditation Determination

Having due consideration of the accreditation panel's observations and comments as presented in this Report, HKCAAVQ makes the following accreditation determination:

2.1 Learning Programme Accreditation

Approval

Name of Operator	Technological and Higher Education Institute of Hong Kong, Vocational Training Council 職業訓練局 - 香港高等教育科技學院
Name of Award Granting Body	Vocational Training Council 職業訓練局
Title of Learning Programme	Bachelor of Science (Honours) in Testing and Certification 檢測和認證(榮譽)理學士
Title of Qualification (Exit Award)	Bachelor of Science (Honours) in Testing and Certification 檢測和認證(榮譽)理學士
Primary Area of Study and Training	Sciences
Sub-area (Primary Area of Study and Training)	Physical Sciences
Other Area of Study and Training	Sciences
Sub-area (Other Area of Study and Training)	Life Sciences
QF Level (Exit Award)	Level 5
QF Credits	529
Mode of Delivery and Programme Length	Full-time, 4 years Part-time, up to 8 years

Intermediate Exit Award	<p>Title of Qualification: Higher Diploma in Testing and Certification 檢測和認證高級文憑</p> <p>QF Level: Level 4</p> <p>QF Credits: 300</p> <p>Attainment: Completion of 5 semesters in full-time mode or up to 8 years in part-time mode of the Bachelor of Science (Honours) in Testing and Certification</p>
Start date of Validity Period	1 September 2017
End date of Validity Period	31 August 2022
Number of Enrolments	One enrolment per year
Maximum Number of New Students	<p><u>For the first year of operation</u> Year 3 Entry – 33 per year</p> <p><u>For the second year of operation</u> Year 3 Entry – 66 per year</p> <p><u>For the third year of operation</u> Year 1 Entry – 33 per year Year 3 Entry – 66 per year</p> <p><u>From the fourth year of operation onwards</u> Year 1 Entry – 66 per year Year 3 Entry – 66 per year</p>
Specification of Competency Standards-based Programme	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Address of Teaching Venues	Technological and Higher Education Institute of Hong Kong (Tsing Yi Campus) 20A Tsing Yi Road, Tsing Yi, New Territories

2.1.1 Recommendations

- (a) THEi should include the Chinese National Standards relating to, for example, the food industry in the relevant modules to facilitate students to work in Mainland China, where there is potential for employment in testing and certification services.
- (b) THEi should expand the use of case studies to a wider range of modules.
- (c) THEi should assess students' performance in presentations in the relevant modules and the assessment weighting of presentations should be clearly stated in the *Module Syllabi*.

3. Programme Details

The following programme information is provided by the operator.

3.1 Programme Objectives

- Equip students with fundamental and up-to-date knowledge and skills in testing, inspection and certification that will prepare them for professional careers in the testing and certification industry;
- develop students' professional competence in integrated science, analytical science, testing technologies, and quality control and management, and their communication and teamwork skills for working effectively in the testing and certification industry;
- develop students' abilities to appreciate how scientific, economic, legal and ethical factors have influenced considerations in the testing and certification discipline;
- develop students' abilities to integrate and apply scientific knowledge and skills, and consider regulatory concerns to identify and solve testing, inspection and certification problems; and
- strengthen students' abilities to keep abreast of developments in the testing and certification profession and to pursue independent and lifelong learning.

3.2 Programme Intended Learning Outcomes

- apply fundamental and up-to-date knowledge and skills in testing, inspection and certification to maintain and improve operations in the testing and certification industry;
- identify, analyse and solve both technological and theoretical issues about integrated science, analytical science, testing technologies, quality control and management in the field of testing and certification;
- develop and evaluate relevant strategies in the field of testing and certification for solution formulation, financial management and make recommendation for improvement with contemporary technologies and practices;
- (CTC Stream) apply professional knowledge and skills learned to perform technical research and professional roles/tasks in chemical testing and certification practice;
(MTC Stream) apply professional knowledge and skills learned to perform technical research and professional roles/tasks in microbiological testing and certification practice;
- (CTC Stream) manage the chemical testing and certification projects professionally, and demonstrate integrity and ethical conduct in fulfilment of personal and social responsibility;
(MTC Stream) manage the microbiological testing and certification projects professionally, and demonstrate integrity and ethical conduct in fulfilment of personal and social responsibility;
- communicate effectively and professionally with fellow professionals and stakeholders in the testing and certification industry by utilising verbal and written communication skills, as well as other soft skills; and
- reflect on career goals and personal development for continuous professional development and lifelong learning.

3.3 Programme Structure

For degree award

Module Type		Years 1 & 2 CPs		Years 3 & 4 CPs		No. of Modules	Credit Points*		QF Credits
		QF L4	QF L5	QF L4	QF L5		No.	%	
GE Modules	GE Core (English)	3	3	-	3	3	9	27.3%	36
	GE Core (Chinese)	3	-	-	3	2	6		24
	GE Core (from 3 domains)	6	-	3	-	3	9		36
	GE Elective	-	6	-	6	4	12		48
IPS Modules	Programme Core	33	12	-	45	29	90	72.7%	361
	Programme Elective	-	-	-	6	2	6		24
	WIL**	-	-	0	-	1	0		0
Total		66 (50%)		66 (50%)		44	132 (100%)		529

* Except for the Final Year Project which carries six CPs, all credit-bearing modules carry three CPs each.

** WIL is not credit-bearing.

For the intermediate exit HD award

Module Type		Years 1 & 2 CPs		Year 3 CPs		No. of Modules	Credit Points*		QF Credits
		QF L4	QF L5	QF L4	QF L5		No.	%	
GE Modules	GE Core (English)	3	3	-	-	2	6	24%	24
	GE Core (Chinese)	3	-	-	-	1	3		12
	GE Core (from 3 domains)	6	-	-	-	2	6		24
	GE Elective	-	3	-	-	1	3		12
IPS Modules	Programme Core	33	12	3	9	19	57	76%	228
	Programme Elective	-	-	-	-	-	-		-
	WIL**	-	-	0	-	1	0		0
Total		63 (84%)		12 (16%)		26	75 (100%)		300

* All credit-bearing modules carry 3 CPs each.

** WIL is not credit-bearing.

3.4 Graduation Requirements

For bachelor's degree

- Students must complete a minimum of 132 credit points (CPs)/529 QF credits and a minimum of 200 hours of industrial attachment under *Work-integrated Learning (WIL)*.
- Students who choose to take double streams must complete a minimum of 147 CPs/589 QF credits.

For the intermediate exit HD award

- Students must complete a minimum of 75 CPs/300 QF credits and a minimum of 90 hours of industrial attachment under WIL.

3.5 Admission Requirements

Standard Entry Route		*Non-Standard Entry Route
Local Qualification	Non-local Qualification	
<p><u>HKDSE</u></p> <ul style="list-style-type: none"> • Level 3 in Chinese Language and English Language • Level 2 in Mathematics, Liberal Studies and 1 Elective Subject or an Applied Learning (ApL) Subject[#] <p>[#] An "Attained" in a relevant ApL subject is regarded as equivalent to an Elective Subject at Level 2.</p> <p><u>HKALE</u></p> <ul style="list-style-type: none"> • Grade E in AS Chinese Language & Culture or AL Chinese Literature/ Grade D in a HKCEE language other than Chinese and English, and • Grade E in AS Use of English, and • Grade E in 1 AL or 2 AS subjects, and 	<p><u>Mainland China</u></p> <ul style="list-style-type: none"> • A score for admission to Mainland 2nd-tier universities in the National College Entrance Examination (全國普通高等學校統一招生考試) (NCEE) or equivalent; and • A score above 100 out of a maximum of 150 for both English Language and Chinese Language <p><u>Other Non-local Qualifications</u></p> <ul style="list-style-type: none"> • Equivalent HKDSE qualifications including Level 3 in English Language 	<ul style="list-style-type: none"> • To be determined by the Faculty Dean on a case-by-case basis <p>*Applicants who do not meet the standard general and programme-specific entrance requirement are considered under the Non-Standard Entry Route.</p>

<ul style="list-style-type: none"> • Grade E/ Level 2 in 5 HKCEE subjects, including Chinese Language and English Language 		
<p>Year 3 Entry</p> <ul style="list-style-type: none"> • Hold a VTC Higher Diploma in Analytical Science or Chemical Technology or in relevant areas; and • Pass an admission interview. 		

- In line with the general expectation on self-financed operators in safeguarding teaching and learning quality and thereby upholding the credibility and recognition of the qualifications, the percentage of the above Year 1 non-standard admissions is capped on a programme basis at a maximum of 5% of the actual number of Year 1 new students of the year.

3.6 Graduate Profile

- Please refer to Appendix.

4. Substantial Change

- 4.1 The accreditation status of the learning programme(s) will lapse upon the expiry of the validity period or HKCAAVQ may withdraw the accreditation status at any time during the validity period if there are substantial changes made to the programme(s) that have not been approved by HKCAAVQ. Please refer to the '*Guidance Notes on Substantial Change to Accreditation Status*' in seeking approval for proposed changes. The Guidance Notes can be downloaded from the HKCAAVQ website.

5. Qualifications Register

- 5.1 Qualifications accredited by HKCAAVQ are eligible for entry into the Qualifications Register (QR) at <http://www.hkqr.gov.hk> for recognition under the Qualifications Framework (QF). The Operator should apply separately to have their quality-assured qualifications entered into the QR.

- 5.2 Only learners who commence the study of the named accredited learning programme during the validity period and who have graduated with the named qualification listed in the QR will be considered to have acquired a qualification recognised under the QF.

Report No.: 17/27
File Reference: 72/39/01

**Graduate Profile of Bachelor of Science (Honours) in
Testing and Certification**

Qualification Title	Bachelor of Science (Honours) in Testing and Certification 檢測和認證(榮譽)理學士
Qualification Type	Bachelor Degree
QF Level	5
Primary Area of Study and Training	Sciences
Other Area of Study and Training	Sciences
Programme Objectives	<p>The Programme Objectives are to:</p> <ol style="list-style-type: none">1. equip students with fundamental and up-to-date knowledge and skills in testing, inspection and certification that will prepare them for professional careers in the testing and certification industry;2. develop students' professional competence in integrated science, analytical science, testing technologies, and quality control and management, and their communication and teamwork skills for working effectively in the testing and certification industry;3. develop students' abilities to appreciate how scientific, economic, legal and ethical factors have influenced considerations in the testing and certification discipline;4. develop students' abilities to integrate and apply scientific knowledge and skills, and consider regulatory concerns to identify and solve testing, inspection and certification problems; and5. strengthen students' abilities to keep abreast of developments in the testing and certification profession and to pursue independent and lifelong learning.
Programme Intended Learning Outcomes	<p>On completion of the Programme, graduates will be able to:</p> <ol style="list-style-type: none">1. apply fundamental and up-to-date knowledge and skills in testing, inspection and certification to maintain and improve operations in the testing and certification industry;2. identify, analyse and solve both technological and theoretical issues about integrated science, analytical science, testing technologies, quality control and management in the field of

	<p>testing and certification;</p> <ol style="list-style-type: none"> 3. develop and evaluate relevant strategies in the field of testing and certification for solution formulation, financial management and make recommendation for improvement with contemporary technologies and practices; 4. (CTC Stream*) apply professional knowledge and skills learned to perform technical research and professional roles/ tasks in chemical testing and certification practice; (MTC Stream**) apply professional knowledge and skills learned to perform technical research and professional roles/tasks in microbiological testing and certification practice; 5. (CTC Stream*) manage the chemical testing and certification projects professionally, and demonstrate integrity and ethical conduct in fulfilment of personal and social responsibility; (MTC Stream**) manage the microbiological testing and certification projects professionally, and demonstrate integrity and ethical conduct in fulfilment of personal and social responsibility; 6. communicate effectively and professionally with fellow professionals and stakeholders in the testing and certification industry by utilising verbal and written communication skills, as well as other soft skills; and 7. reflect on career goals and personal development for continuous professional development and lifelong learning. <p>* Chemical Testing and Certification ** Microbiological Testing and Certification</p>
<p>Education Pathways</p>	<p>Graduates of the Programme will have the opportunities to further their studies at the taught Master level or to register for research postgraduate degree programmes on Testing and Certification, Accreditation Chemistry, Analytical Chemistry, Food Analysis and Food Safety Management, etc. at local or overseas universities.</p>
<p>Employment Pathways</p>	<p>Graduates of the Programme will be capable of assuming supervisory and technical duties in the T&C industry. The graduates will have the potential to assume positions such as Technical Assistant, Assistant Technical Consultant, Food System Technologist, Quality Assurance Assistant, Research Technician Chemist, etc. They can advance to managerial positions, such as Senior Chemist, Technical Consultant and Technical Manager, etc. with accumulated working experience and professional qualifications.</p>

Minimum Admission Requirements	The Programme follows the institutional General Entrance Requirements as follows:		
	Standard Entry Route		*Non-Standard Entry Route
	Local Qualification	Non-local Qualification	
	<u>HKDSE</u> <ul style="list-style-type: none"> Level 3 in Chinese Language and English Language Level 2 in Mathematics, Liberal Studies and 1 Elective Subject or an Applied Learning (ApL) Subject[#] <p>[#] An “Attained” in a relevant ApL subject is regarded as equivalent to an Elective Subject at Level 2.</p> <u>HKALE</u> <ul style="list-style-type: none"> Grade E in AS Chinese Language & Culture or AL Chinese Literature/ Grade D in a HKCEE language other than Chinese and English, and Grade E in AS Use of English, and Grade E in 1 AL or 2 AS subjects, and Grade E/ Level 2 in 5 HKCEE subjects, including Chinese Language and English Language 	<u>Mainland China</u> <ul style="list-style-type: none"> A score for admission to Mainland 2nd-tier universities in the National College Entrance Examination (全國普通高等學校統一招生考試) (NCEE) or equivalent; and A score above 100 out of a maximum of 150 for both English Language and Chinese Language <u>Other Non-local Qualifications</u> <ul style="list-style-type: none"> Equivalent HKDSE qualifications including Level 3 in English Language 	<ul style="list-style-type: none"> To be determined by the Faculty Dean on a case-by-case basis <p>*Applicants who do not meet the standard general and programme-specific entrance requirement are considered under the Non-Standard Entry Route.</p>
Year 3 Entry <ul style="list-style-type: none"> Hold a VTC Higher Diploma in Analytical Science or Chemical Technology or in relevant areas; and Pass an admission interview. 			
Operator	Technological and Higher Education Institute of Hong Kong, Vocational Training Council 職業訓練局 - 香港高等教育科技學院		