



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

## **SUMMARY ACCREDITATION REPORT**

**Federation for Self-financing Tertiary Education**

**Hong Kong Institute of Technology**

**Programme Validation at QF Level 3**

**Certificate in Electrical Engineering  
(Elective Cluster of Yi Jin Diploma)**

**June 2014**

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 The Yi Jin Diploma (YJD) programme was accredited by the HKCAAVQ in August 2013 with a validity period of three years starting from the 2013/14 academic year to be operated by seven member institutions of the Federation for Self-financing Tertiary Education (FSTE) including the Hong Kong Institute of Technology (HKIT/the Operator). At the time of the accreditation exercise for the YJD programme, the HKCAAVQ was informed that the FSTE member institutions may propose new and/or revamped Elective Clusters before commencement of each academic year.
- 1.2 For implementation in the 2014/15 academic year, the HKIT proposed an Elective Cluster, Electrical Engineering [機電工程], which was developed with reference to the Specification of Competency Standards (SCS) developed by the Electrical & Mechanical Services Industry Training Advisory Committee of the Qualifications Framework (QF) and the Qualifications Guidelines for the SCS-based Courses under the QF.
- 1.3 Following the advice of the Education Bureau to the FSTE and its member institutions to award standalone qualifications to YJD students on successful completion of a SCS-based Elective Cluster/Course, this Elective Cluster of HKIT is to be accredited by the HKCAAVQ leading to the SCS-based qualification, Certificate in Electrical Engineering (Elective Cluster of Yi Jin Diploma) [機電工程(毅進文憑選修群組)證書] and to be uploaded separately on the Qualifications Register of the QF. On successful completion of the Elective Cluster, students of the YJD programme will be awarded the Certificate in Electrical Engineering (Elective Cluster of Yi Jin Diploma).
- 1.4 Based on the agreement, the HKCAAVQ was commissioned by the FSTE to assess and determine whether the following learning programme of the HKIT achieves the stated objectives and meets the QF standard at QF Level 3:
  - (1) Certificate in Electrical Engineering (Elective Cluster of Yi Jin Diploma)
- 1.5 The accreditation exercise was conducted according to the relevant accreditation guidelines referred to in the agreement and the terms stated therein.

## **2. HKCAAVQ's Accreditation Determination**

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

### **2.1 Programme Validation**

- Approval

<b>Name of Operator</b>	Hong Kong Institute of Technology 香港科技專上書院
<b>Name of Award Granting Body</b>	Hong Kong Institute of Technology 香港科技專上書院
<b>Title of Learning Programme</b>	Certificate in Electrical Engineering (Elective Cluster of Yi Jin Diploma) 機電工程(毅進文憑選修群組) 證書
<b>Title of Qualification (Exit Award)</b>	Certificate in Electrical Engineering (Elective Cluster of Yi Jin Diploma) 機電工程(毅進文憑選修群組) 證書
<b>Primary Area of Study / Training</b>	Engineering and Technology
<b>Other Area of Study / Training</b>	Not applicable
<b>Industry</b>	Electrical & Mechanical Services
<b>Branch</b>	Electrical Engineering
<b>QF Level</b>	Level 3
<b>QF Credit</b>	45
<b>Mode of Delivery and Programme Length</b>	Full-time: 1 year [450 notional learning hours (including 180 contact hours)] Part-time: 2 years [450 notional learning hours (including 180 contact hours)]
<b>Intermediate Exit Award</b>	Not applicable
<b>Validity Period</b>	2 years (1 September 2014 – 31 August 2016)
<b>Number of Enrolments</b>	Not applicable
<b>Maximum Number of New Students</b>	Maximum of 35 students per class
<b>Specification of Competency Standards Based Programme</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Programme Specific Requirement</b>	Not applicable
<b>Remark to be indicated on the QR</b>	This programme is an Elective Cluster, Electrical Engineering, of the Yi Jin Diploma programme. 此課程屬於毅進文憑課程的「機電工程」選修群組。
<b>Address of Teaching/Training Venue</b>	No. 638 Cheung Sha Wan Road, Cheung Sha Wan, Kowloon 九龍長沙灣道 638 號

	<p>Shop No. 101, 1/F, Wharf T&amp;T Square, No.123 Hoi Bun Road, Kwun Tong, Kowloon 九龍官塘海濱道 123 號九倉電訊廣場 1 樓 101 號舖</p> <p>Shop Nos. UG17-UG20, UG/F, Waterside Plaza, 38 Wing Shun Street, Tsuen Wan, N.T. 新界荃灣永順街 38 號海灣花園購物商場地下上層 17-20 號舖</p> <p>Shop G/F, Florence Mansion, No. 6 Tsing Ling Path, Tuen Mun, N.T. 新界屯門青菱徑 6 號富麗大廈地下 G 號舖</p> <p>Shop Nos. A118&amp;119, G/F, Kingswood Richly Plaza, Locwood Court, Kingswood Villas, No. 1 Tin Wu Road, Tin Shui Wai, Yuen Long, N.T. 新界元朗天水圍天湖路 1 號樂湖居嘉湖新北江商場地下 A118-119 號舖</p> <p>Shop 605, 6/F, Jubilee Square, 2-18 Lok King Street, Shatin, N.T. 新界沙田火炭樂景街 2-18 號銀禧薈 6 樓 605 號舖</p> <p>Shop G30, G/F, The Metropolis, Metro City Phase III, 8 Mau Yip Road, Tseung Kwan O, N.T. 新界將軍澳貿業路 8 號新都城三期地下 G30 號舖</p> <p>5/F, Well View Commercial Building, 10 Morrison Street, Sheung Wan, Hong Kong 香港上環摩利臣街 10 號宏基商業大廈 5 樓</p> <p>H.K. &amp; Kowloon Electrical Engineering &amp; Appliances Trade Workers Union, 3/F, Prosperity Centre, 982 Canton Road, Mong Kok, Kowloon 九龍旺角廣東道 982 號嘉富商業中心 3 樓港九電器工程電業器材職工會</p>
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### 3. Programme Details

The following is the programme information provided by the Operator.

### 3.1 Programme Objectives

The programme aims to introduce Electrical Engineering to students and raise the interest of students in the industry. Elective Course (1) “Introduction to Electrical Engineering” provides basic theory and practical knowledge of Electrical Engineering to students. Elective Course (2) “Occupational Safety and Health for Electrical Engineering” identifies the need for risk sensitivity during practical works and highlights the importance of occupational safety in order to reduce accidents. Elective Course (3) “Maths Plus” enhances students’ mathematical ability in order to equip them for further study with Engineering.

### 3.2 Programme Intended Learning Outcomes

Upon completion of the programme, students should be able to:

- demonstrate the comprehension of the basic theory and practices of Electrical Engineering;
- handle a range of basic tasks in the installation of electrical systems;
- apply knowledge and skills to carry out tasks common in electrical work in building services installations;
- apply basic mathematical tools needed in the calculation and evaluation of systems used in electrical installation;
- understand the occupational health and safety requirements needed in electrical installation work in building services; and
- evaluate the health and safety issues of the work environment and related work practice when performing tasks in the electrical installation by applying knowledge of occupational safety and health in this field.

### 3.3 Programme Structure

Elective Course (1): Introduction to Electrical Engineering

Category	Unit of Competency	QF Credit
Basic Theories of Electrical Engineering	EMCUDE101A EMCUDE204A EMELDE206A	-
Fundamentals of AC/DC Circuits Theories and Applications	EMELDE302A	-
Basic Assessment of Electrical Equipment Design	EMELDE301A	-
Application of Electrical Technologies in Buildings	EMELDE309A	-
Examination	-	
<b>Total</b>		<b>15</b>

Elective Course (2): Occupational Safety and Health for Electrical & Mechanical Services Industries

Category	Unit of Competency	QF Credit
Knowledge of Safe Use of Electricity	-	-
Risk Assessment	EMCUSH205A	-
Handling Accidents	EMCUSH208A	-
Analysis and Treatment of Accidents Relating to Electrical Circuits and Electrical Machines	EMCUSH305A	-
Enhancing Works Quality and Safety	EMCUQM306A	-
Examination	-	-
<b>Total</b>		<b>15</b>

#### Elective Course (3): Maths Plus

Category	Unit of Competency	QF Credit
Approximation and Error Estimation	-	-
Introduction to Complex Arithmetic	-	-
Introduction to Logic	-	-
Mathematical Induction	-	-
Algebra Calculation and Application	-	-
Permutations, Combinations and Probability	-	-
Introduction to Statistical Inferences	-	-
Space and Shape	-	-
Space and Measurement	-	-
Assignment, Test and Final Examination	-	-
<b>Total</b>		<b>15</b>

#### 3.4 Graduation Requirements

- Achieve an attendance rate of 80% or above in each Elective Course; and
- Achieve at least 50% overall mark in each Elective Course.

#### 3.5 Admission Requirements

- Students of Yi Jin Diploma programme

### 4. Substantial Change

- 4.1 The maintenance of the HKCAAVQ accreditation status during the validity period is subject to no substantial change being made without prior approval by the HKCAAVQ.

### 5. Qualifications Register

- 5.1 Qualifications accredited by the HKCAAVQ are eligible for entry into the Qualifications Register (QR) at <http://www.hkqr.gov.hk> for recognition under the Qualifications Framework (QF). Operators should apply separately to have their quality-assured qualifications entered into the QR.
- 5.2 Only learners who are admitted to the named accredited learning programme during the validity period and who have graduated with the named qualification uploaded in the QR will be considered to have acquired a qualification recognised under the QF.

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