THE HONG KONG INSTITUTION OF ENGINEERS
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HKIE Certification of Engineering Air Modelling Professional

1. Introduction

1.1 HKIE Certification of Engineering Air Modelling Professional

The Hong Kong Institution of Engineers (HKIE) Certification of Engineering Air Modelling Professional (Eng AM Pro) serves to assess whether HKIE members can meet the eligibility criteria for inclusion in the Eng AM Pro register of the HKIE. Eng AM Pro is recognised by the Environmental Protection Department (EPD) of the HKSAR Government, and shall be capable of performing the duties of certified air modelling professional in "Guidelines for Local-Scale Air Quality Assessment Using Models" for review and endorse the air modelling related submissions for the Air Quality Impact Assessment (AQIA) for Environmental Impact Assessments, Specified Processes Licence applications, Planning cases, etc. The certification aims at enhancing the capacity and competence of HKIE members in preparing, checking and submitting the air modelling related information and AQIA reports to Director of Environmental Protection. This is in response to the escalating need for enhancing the quality of AQIA submissions for facilitating and speeding up the processes of infrastructure and residential developments.

1.2 Objectives

The primary aims of certification are to guarantee that members who are accepted by the HKIE for inclusion in the "Eng AM Pro" register possess the requisite professional and technical knowledge, training and practical experience, as well as a sufficient level of expertise in preparing and managing air modelling processes to fulfil air impact assessments under EIAO and other requirements imposed by EPD.

1.3 Core Competencies of "Eng AM Pro"

The Core Competencies of an "Eng AM Pro" include the capability:

i) To comprehend and apply professional air modelling knowledge of EIAO statutory, EIA Guidance Notes, Air Pollution Control Ordinance (APCO) and its subsidiary regulations, Air Quality Objectives (AQOs), Best Practicable Means (BPM) and other requirements underpinning good practices for professional air modelling. (Possession of the professional knowledge and expertise in statutory requirements for air modelling stipulated in EIAO, EIA Guidance Notes, Air Pollution Control Ordinance (APCO) and its subsidiary regulations, Air Quality Objectives (AQOs), Best Practicable Means (BPM), etc.)

ii) To define, analyse, and develop technical air models for air impact assessment and development of air mitigation measures. (Professional experience in defining the scopes of the air modelling, such as vehicular emission, industrial emission, odour emission, marine vessel emission, construction dust, etc.; recommending air modelling methodologies and computation software; analysing potential air mitigation measures and designing or developing solution to meeting EIAO, TM-EIA, Study Brief, EIA Guidance Notes, Air Pollution Control Ordinance (APCO) and its subsidiary regulations, Air Quality Objectives (AQOs) and Best Practicable Means (BPM) requirements)

iii) To manage one or more developments of air modelling activities in accordance with good management practices to meeting EIAO, Air Pollution Control Ordinance (APCO) and its subsidiary regulations, Air Quality Objectives (AQOs) and Best Practicable Means (BPM) requirements. (Ability to describe the responsibilities of various professionals including Eng EIA Pro, the Authority, project proponents, developers, urban planners, architects, engineers, contractors, EM&A professionals, etc., in an AQIA study; proficiency in statutory and non-statutory requirements of air assessment criteria, methodologies and computation software)

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iv) To be responsible for preparing, analysing and interpreting air modelling results for AQIA of EIA report, environmental review, town planning or land lease requirements. (Proficiency in statutory and non-statutory requirements of EIAO, Town Planning Ordinance and land lease)

v) To communicate clearly with decision-makers, other engineers/professionals in the AQIA study and recognize quality management of the air models and reporting. (Ability to apply effective interpersonal and communication skills presentations, meetings, AQIA report writing and quality assurance etc.)

2. Eligibility

Eng AM Pro	
Qualifications	Corporate Members of the HKIE (FHKIE/ MHKIE) or Associate Members of the HKIE (AMHKIE)
Work Experience	Have at least three years of full-time relevant work experience (with at least six months stationed in Hong Kong)
Recognised Practical Air Modelling Experience	Applicants should have no less than TWO YEARS of air modelling work experience (including at least six months in Hong Kong) in data collection, air modelling setup, interpretation of modelling data, reporting of air impact assessment or submissions to authorities, counting up to the application form submission date.
Air Modelling Training	Successful completion of the HKIE-recognised "Course for HKIE Certification of Engineering Air Modelling Professional" offered by B&R Sustainable Green Development Training Centre (SDGC) of the EPD or equivalent courses.
Submission of Supporting Document	1. Submitted a completed Application Form for Certification of Engineering Air Modelling Professional; 2. Completion certificate of HKIE-recognised "Course for HKIE Certification of Engineering Air Modelling Professional" or equivalent courses; 3. Provision of air modelling experience on all core competencies, including key project information, the applicant's role and air modelling tasks accomplished (incorporated in the online application form); and 4. Evidence of the required work experience and air modelling experience.
Acceptance Requirements	Passing an Interview (arranged by HKIE to assess whether the applicant possesses the required core competencies and practical experience).
Fee Schedule	A total fee of HK$3,620 will be charged upon successful application for the certification of Eng AM Pro. The fee structure is as follows: 1. Application Fee: HK$620 upon submission of the application. 2. Assessment Fee: HK$2,000 upon the applicant being considered eligible for assessment. 3. First Registration Fee: HK$1,000 upon confirmation of meeting all certification requirements. All payment received are non-refundable and non-transferable.

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3. Review of Interview / Assessment Results and Handling of Appeal

In the event of an unsuccessful Interview/Assessment outcome, an applicant has the option to request a review of their result by submitting a written application to the HKIE Professional Certification Committee (PCC) within 14 calendar days of the announcement of results (excluding the day of the announcement), accompanied by an application fee of $970, and providing brief grounds for review. Late appeals will not be considered.

The applicant must demonstrate, through sufficient evidence, that there is justification for such an application. The PCC shall review the case and make a recommendation to the Qualification & Membership Board. Successful appeals will be refunded in full.

4. Renewal of Registration

The HKIE shall maintain a Register for Eng AM Pro, which shall be accessible to the public for review via the HKIE website.

HKIE members listed as Eng AM Pro shall remain on the register upon annual renewal of their HKIE membership, provided that they have completed 12 hours environmental-related Continuing Professional Development (CPD) activities. The renewal fee for the certification of Eng AM Pro is HK$1,000.