

Associate Membership Route to Corporate Membership

(Candidates must read this leaflet in conjunction with M3 Routes to Membership)

(I) Supplement to M3 Routes to Membership

The following serves as supplement to Section 5 Mature Route of M3 Routes to Membership:

“Associate Members (over 35 years) who have acquired 12 years progressive experience after qualified would be eligible to take Professional Assessment. They should have experience in posts of increasing responsibility in a relevant branch of engineering. They should have attained a position demonstrating a level of competence that would have met the requirements for the class of Member.”

Other requirements in M3 Routes to Membership for candidates seeking to use mature route to apply for Membership of the HKIE are still in force and hence, all applicants must read the above in conjunction with M3 Routes to Membership.

Associate Membership Route to Corporate Membership

(II) New Route for Associate Members to apply for Corporate Membership – Supplement to M3 Routes to Membership

“Associate Members with a minimum of 8 years progressive experience, together with the top up programmes approved by a particular Discipline would be eligible to sit for the Professional Assessment. These top up programmes approved by a particular Discipline would top up the academic requirements and part of the experience required in a Discipline for Professional Assessment. They should have experience in posts of increasing responsibility in a relevant branch of engineering. They should have attained a position demonstrating a level of competence that would have met the requirements for the class of a Member.”

On initial implementation, two pilot Disciplines have approved the top up requirements as follows:

(A) Aircraft Discipline

There are two options: i) practical-oriented option for candidates who wish to proceed their careers in a more practical environment such as hangar and workshop; and ii) academic-oriented option for candidates who favour more on academic route and would like to pursue for managerial undertaking.

Details of the top up requirements are in Attachment I.

(B) Electrical Discipline

The top up requirements: i) individual courses offered in Part-time BEng/MSc degree courses in Electrical Engineering conducted by the Hong Kong Polytechnic University (HKPU); ii) workshops in Electrical Engineering conducted by the Electrical and Electronic Engineering Department of the University of Hong Kong (HKU).

Details of the top up requirements are in Attachment II.

Other requirements in M3 Routes to Membership for candidates seeking to use mature route to apply for Membership of the HKIE are still in force and hence, all applicants must read the above in conjunction with M3 Routes to Membership.

ATTACHMENT I

TOP UP REQUIREMENTS WITH PRESCRIBED MODULES (INCLUDING OUTLINE CONTENTS) BY AIRCRAFT DISCIPLINE

1. Two options of bridging training – Option 1 caters for candidates who wish to proceed with their career in a more practical environment such as hangar and workshop while Option 2 would fit those who favour a more academic route and pursue for managerial undertaking.
2. Option 1 – Any six modules selected from the nine QF Level 5 modules below.
 - (a) Maintenance Tasks Planning and Scheduling
 - (b) Maintenance of Quality Control for Maintenance Tasks
 - (c) Granting Aircraft Certificates
 - (d) Gas Turbine Engine (Mechanics Repair and Maintenance)
 - (e) Aeroplane Aerodynamics, Structures and Systems (Mechanics Repair and Maintenance)
 - (f) Helicopter Aerodynamics, Structures and Systems (Mechanics Repair and Maintenance)
 - (g) Aircraft System (Avionics Repair and Maintenance)
 - (h) Propulsion System (Avionics Repair and Maintenance)
 - (i) Aeroplane Aerodynamics, Structures and Systems (Simple Light Aeroplane Repair and Maintenance)
3. Option 2 – Any six modules selected from the nine QF Level 6 modules below.
 - (a) Air Legislation
 - (b) Airworthiness and Maintenance
 - (c) Quality Assurance
 - (d) Aircraft Material and Structural Design
 - (e) Turbulent Flows & Aerodynamics
 - (f) Aircraft Noise and Aeroacoustics
 - (g) Safety Management System
 - (h) Safety Assessment
 - (i) Project Management

ATTACHMENT II

TOP UP REQUIREMENTS WITH PRESCRIBED MODULES (INCLUDING OUTLINE CONTENTS) BY ELECTRICAL DISCIPLINE

1. Approved Courses

- (a) Part time B.Eng./M.Sc. degree courses in Electrical Engineering conducted by The Hong Kong Polytechnic University (HKPU)

Note 1: Enrolment can be made on per subject basis.

Note 2: AM with Higher Diploma (HD) and/or Higher Certificate (HC) in Electrical Engineering with relevant experience may enrol in individual courses and admission is subject to HKPU Electrical Engineering Department's approval.

Note 3: Certificate is issued to students who have attended and successfully passed the assessment/exam.

- (b) Workshops in Electrical Engineering conducted by The Electrical and Electronic Engineering Department of The University of Hong Kong (HKU) to assist Associate Members to advance their academic achievements for the subject purpose

Note 1: Tentatively the following seven workshops will be conducted by HKU in 2014:

Maintenance Management of Electrical Installations

Testing and Commissioning of Low-Voltage Electrical Installations and Equipment

Extra-Low-Voltage Services in Buildings

Engineers in Society

Transmission and Distribution Protection

Electrical Drives for Electric Vehicles

Intensive Project Workshop in Power Engineering and Related Technology

Note 2: Courses are at B.Eng. level with at least 30 contact hours except for the intensive project workshop which shall carry three times the academic credits (please see (2) below). AM with relevant experience may apply and admission is subject to HKU Electrical and Electronic Engineering Department's approval.

Note 3: Certificate is issued to students who have attended and successfully passed the assessment/exam.

2. Conditions to Satisfy the Requirements for Reduction in Progressive Experience

To qualify, AM with HD and/or HC must attend and successfully obtain a pass in at least five (5) courses and six (6) courses respectively. These courses can either be HKPU part time B.Eng./M.Sc. degree courses or HKU workshops as mentioned above, or a combination of them. One of these courses shall be the "Engineers in Society" workshop conducted by HKU or the "Society and the Engineer" subject course in the B.Eng. program of HKPU. Besides, they must satisfactorily complete one project under an intensive project based course/workshop by HKPU or HKU. The project based course/workshop shall carry a time factor of three over the other courses (i.e. three times the academic credits). In other words, they must complete 15 academic credits for AM applicants with HD and 18 academic credits for AM applicants with HC plus 9 academic credits for the project to qualify, assuming 3 credits are counted into each course/workshop.

The courses and project must fall into one of the following core subjects in electrical engineering:

Electromagnetism

Electrical Machines

Power Electronics

Electric Power Transmission and Distribution

Power Systems

Energy Conversion

Electric Circuits

Control, Automation and System Engineering

Electrical Materials

Electrical Services in Buildings

Electrical Drives

Electrical Transportation System

Lighting Engineering

Sustainable Electricity

(Further subjects approved by the Electrical DAP)