

## Admission Requirements for the Logistics and Transportation Discipline

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

Candidates applying the class of Member of Logistics and Transportation Discipline of the HKIE are required to satisfy the following:

### 1. Academic Requirements

- (i) a first engineering degree (Honours) accredited by the Institution relevant to the Discipline; or
- (ii) an accredited first engineering degree as listed in the Washington Accord relevant to the Discipline and maintained by the Institution; or
- (iii) other acceptable qualifications, such as Corporate Membership of The Hong Kong Institution of Engineers in relevant Disciplines or passes in relevant subjects of Engineering Council (UK) part II Examinations up to and including year 2001 and passes in relevant subjects in the Engineering Council Postgraduate Diploma in and after year 2002 up to and including 2012; or
- (iv) other Honours non-engineering degree level qualifications may be considered for the class of Member based on an individual assessment. Candidates are required to complete Form 1/AQ. Please refer to section 2 of “M3 Routes to Membership” for details.

### 2. Training/Experience Requirements

#### Scope of Experience

The scope of experience will include the application of the science and practice of analytical and application of Logistics and Transportation Engineering, with the objectives of providing most effective method for enabling logistics transformation to facilitate knowledge-based decision making throughout the system cycle.

**Logistics Engineering and System:** all facets of logistics systems including design and development, testing, production, fielding, sustainment, improvement and modification, and disposal. System engineering with reliability, maintainability, and availability are designed into supply and physical distribution considerations. Design and application of logistics systems to provide effective metrics for measurement and control.

**Logistics Engineering and Supply Chain:** Design, control, and manage all activities of the supply chain related to forwarding, purchasing, storage, distribution, warehousing of raw materials, semi-finished goods and finished products. Across all phases of the supply chain system to focus on achieving optimum process throughout the concept refinement, technology development, system development, production and deployment, operation and support.

**Transportation Engineering and Management:** Multi-modal transportation planning, transport policy review, feasibility studies for infrastructure projects, geometric design and pavement design, design and management of transportation facilities (including air, sea and land transport networks), control and surveillance of transportation facilities (such as airport terminals, container ports and transit stations etc), transportation infrastructure diagnosis and rehabilitation.

**Traffic Engineering and Operations:** traffic surveys and analysis, customer satisfaction and market surveys, roadway design, road signage, road marking, traffic signal design and optimization, traffic impact assessment, traffic diversion and incident management, road safety audit and mitigation, intelligent transportation systems.

It is not reasonable to expect an applicant to be fully conversant in the entire scope of experience; one must however have broad experience and responsibility in one or more fields, as well as a good understanding of other related aspects.

### **Routes of Gaining Experience**

#### **(i) Formal Training Route**

Applicants, having completed the formal training (Scheme “A” Training) and acquired adequate responsible experience to manage engineering activities and can demonstrate their experience compliance with the HKIE Competence Standards, should be allowed to sit for Professional Assessment. In general, it would take no less than three years after graduation to satisfy these.

#### **(ii) General Experience Route**

Candidates who have not undertaken pre-approved training will be required to have had a minimum of six years’ relevant work experience in Logistics and Transportation Engineering.

Candidates who satisfy the above requirements will be accepted for Professional Assessment.

### **3. Professional Assessment (Please refer to Section 5 of M3 Routes to Membership for details)**

All candidates are expected to deliver the following documentation together with their applications:

- (i) Training & Experience Report (1,600 – 2,000 words)
- (ii) Drawings and Documents
- (iii) Logbooks (if Scheme “A”)
- (iv) Continuing Professional Development (CPD) Record

All documents should be the candidate’s own work and documents must be verified by a Corporate Member of the Institution or the employer.

All documents submitted will be treated as confidential and will be returned to the candidates after assessment. Candidates should however retain copies of all documents submitted as the Institution does not accept responsibility for any documents lost or damaged.

All candidates are required to take Professional Assessment (including an interview and essay).