



**Incorporated Engineer (IEng)
via the Experiential Learning Option**

Guidance for applicants

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1. Professional Registration with the Engineering Council

The Engineering Council's [UK-SPEC \(4th edition\)](#) defines competence as 'a professional's ability to carry out engineering tasks successfully and safely within their field of practice'. In addition, registered engineering professionals are required to demonstrate an on-going personal and professional commitment to society, the environment and their profession.

CIHT is licensed by the Engineering Council to assess its members against the competence standards for:

- Chartered Engineer (CEng) – applicants must be able to develop solutions to engineering problems using new or existing technologies, through innovation, creativity and change. They may be accountable for complex systems with significant levels of risk.
- Incorporated Engineer (IEng) – applicants must be able to maintain and manage the application of current and developing technology, and may undertake engineering design, development, manufacture, construction and operation.
- Engineering Technician (EngTech) – applicants must be able to apply proven techniques and procedures to solve practical engineering problems and safe systems of work.

Each registration title (EngTech, IEng and CEng) requires demonstration of competence and commitment in the following five broad areas:

- **A** Knowledge and understanding
- **B** Design, development and solving engineering problems
- **C** Responsibility, management and leadership
- **D** Communication and interpersonal skills Commitment
- **E** Personal and professional commitment

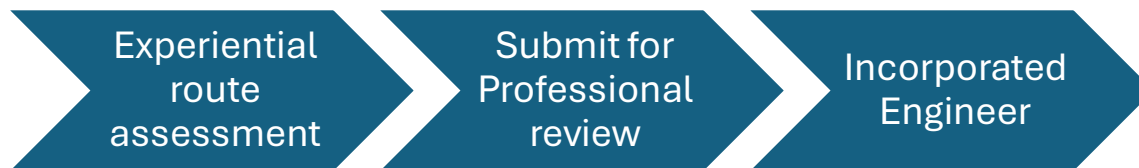
The competency and commitment requirements for CEng, IEng and EngTech professional registration are set out in pages 19-45 of the UK-SPEC document.

2. Routes to Professional Registration as an Incorporated Engineer

CIHT members can gain Engineering Council professional registration via two main routes: the Standard Route and the Individual Route.

- Standard Route: For applicants holding accredited qualifications.
- Individual Route: For those without accredited qualifications, including the Experiential Learning option.

The Individual Route allows applicants to demonstrate their knowledge and understanding of engineering principles to the required academic level (i.e Bachelors degree level for IEng or Masters degree level for CEng). Applicants who successfully demonstrate their knowledge and understanding through one of the assessment options above may progress to the professional review which is an assessment of practical engineering competence undertaken by both Standard Route and Individual Route applicants.



CIHT applicants are advised of the route and option(s) open to them following an **Initial Assessment**. If you have not applied for Initial Assessment, you should complete the on-line process before starting to put together your application to make sure that you are pursuing the appropriate route and/or option. Completing an Initial Assessment is free of charge. Non-members can access the Initial Assessment form by registering on CIHT's website, however, applicants for professional review must be CIHT members (see [CIHT Membership for Individuals](#) for details).



3. Experiential Learning Option to Incorporated Engineer Status

Note: This guidance explains the assessment process for applicants eligible for the IEng Experiential Learning option. It assumes you have completed CIHT's Initial Assessment to confirm eligibility. The Technical Report route is explained in separate guidance.

The IEng Experiential Learning option allows members to demonstrate the required learning outcomes for IEng registration, as specified in the Engineering Council's Accreditation of Higher Education Programmes (AHEP) and the QAA Engineering Benchmark Statement.

Learning is demonstrated through the application of knowledge and critical evaluation of outcomes, requiring strong technical experience in highways/transportation engineering. Evidence should show a range and depth of engineering knowledge beyond that gained at EngTech level.

4. Eligibility for the IEng Experiential Learning Option

- Be a Member (MCIHT) or Fellow (FCIHT) of CIHT and
- Hold a foundation degree or HND which is partially accredited for IEng **or** hold a qualification that has been approved for EngTech **or** be already registered as an Engineering Technician

There are two routes depending on the level of existing qualifications you already hold

	Qualifications Held	Experiential route requirements
Route A	applicants with a foundation degree or HND partially accredited for IEng	Section A 5500 words
Route B	applicants with qualifications approved for EngTech (E.g. HNC, BTEC, Dublin Accord) or who have already gained EngTech	Sections A and B 8000 words

5. Demonstrating IEng Learning Outcomes

Bachelors degrees require you to study your subject area to a greater depth the technician level qualifications and the experiential route gives you an opportunity to show that you have achieved that depth of knowledge through work. A key difference between IEng and EngTech is the ability to address broadly defined as well as well-defined problems, and that you should be able to evaluate and analyse the impact of your work.

Section A – All Applicants (Word count: 5,500)



- Science, Mathematics and Engineering Principles
- Problem Analysis
- Analytical Tools and Techniques
- Technical Literature
- Design
- Integrated Systems Approach
- Ethics
- Risk
- Engineering and Project Management

Section B – For EngTech/Dublin Accord applicants (Word Count 3500)

- Sustainability
- Equality, Diversity & Inclusion
- Practical and Workshop Skills
- Materials, equipment, technology and processes
- Quality Management
- Teamwork

Applicants should reference 1 or 2 examples for each section explaining the relevant theories and principles applied and the knowledge that was gained. Appendices should not exceed 50 sides of A4 and must be clearly referenced.

In addition to the application form, all applicants must submit their Continuing Professional Development (CPD) record for each of the two previous calendar years, demonstrating a minimum of 25 hours for each year. Any CPD undertaken for the current year should be included for information purposes. The CPD record may be submitted using the CIHT template, or another format that provides the same information.

All Experiential Learning applications must be signed off by a sponsor who is a current IEng or CEng registrant. The sponsor must be able to confirm that the Experiential Learning application is the applicant's own work and that, to the best of their knowledge, the examples provided reflect the work-based learning claimed.

Experiential Learning Application Tips

- Write abbreviations out in full the first time they are used;
- Keep your project introductions/background information brief – concentrate on describing what you learnt from the experience;
- Write in the first person wherever possible to make it clear that you are highlighting your personal competence rather than that of the team;
- Avoid reproducing sections of regulations/guidelines – simply give the name of the document and the section/page reference;
- You may use annotated drawings in your application to convey your knowledge and understanding of a topic. If you are interviewed, be prepared to explain any drawings submitted.

6. Experiential Learning Assessment

Applicants should submit their application using the appropriate form. The assessment is carried out by two CIHT assessors who are Incorporated Engineers or Chartered Engineers. The assessment is based on written evidence, and applicants may be required to attend an interview to expand on examples provided.

Applicants will receive their assessment result via email, typically within 6 weeks of submission or interview. Unsuccessful applicants will receive feedback to help address shortfalls and prepare for resubmission.

Assessment outcomes are reviewed and ratified by CIHT's Individual Route Assessor Panel.

Successful applicants will be invited to apply for professional review, requiring a Portfolio of Evidence and a Professional Review interview.

7. Help and Advice

For queries about the IEng Experiential Learning option, contact education@ciht.org.uk

Checklist for Submission

- Experiential Learning Application Form (appendices ≤ 50 sides A4)
- Up-to-date CV
- 2 Year CPD Record (minimum 25 hours per year)
- Submit as one comprehensive PDF to education@ciht.org.uk