# Experiential Learning

# Chartered Engineer Application Form

# Please insert a passport sized photo here

**PERSONAL INFORMATION** *(Type or print in BLOCK CAPITALS)*

Title:Click or tap here to enter text.Surname:Click or tap here to enter text.

First name:Click or tap here to enter text.Date of Birth:Click or tap here to enter text.

Nationality:Click or tap here to enter text.Gender: Male [ ]  Female [ ]  Prefer not to say [ ]

Full Postal Address:Click or tap here to enter text.

Click or tap here to enter text. PostcodeClick or tap here to enter text.

Telephone:Click or tap here to enter text. E-mail:Click or tap here to enter text.

CIHT membership number: Click or tap here to enter text.Member [ ]  Fellow [ ]

Employer organisation: Click or tap here to enter text.

Employer address:Click or tap here to enter text.

Click or tap here to enter text.Postcode:Click or tap here to enter text.

Telephone:Click or tap here to enter text.E-mail: Click or tap here to enter text.

Job Title:Click or tap here to enter text.

**Engineering discipline (Please √)**

|  |  |
| --- | --- |
| Transport planning | [ ]  |
| Materials and geotechnics | [ ]  |
| Traffic management, safety and systems engineering  | [ ]  |
| Infrastructure planning, design, construction and/or maintenance | [ ]  |
| Transport related structural engineering | [ ]  |
| Academic research and teaching, or training more generally | [ ]  |
| Research and development in highways and transportation  | [ ]  |
| Intelligent transport systems | [ ]  |
| Other (please specify) |  |

**IMPORTANT UNDERTAKING TO BE SIGNED BY THE APPLICANT**

I declare that the information in my application is, in every respect, complete and accurate.

###### SIGNATURE **………………………………………**DATE  **………………………..…………………………....**

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| **Sponsor Details** |
| First name: Click or tap here to enter text. | Surname: Click or tap here to enter text. |
| Job Title: Click or tap here to enter text. | Name of organisation:  |
| Employer address:   |
| Email:  | Telephone:  |
| Membership of Professional Bodies (name & grade): |  |
| Engineering Council registration level and number (if known):  |   |
| Signature: | Date:  |
| **Please √ to confirm** |
| Current relationship with applicant | Line Manager / Client  |[ ]
|  | Professional or Business Associate / Peer |[ ]
|  | Other: Mentor/Colleague  |
|  |
| I have known the applicant for: | 1-3 years |[ ]
|  | 4-10 years |[ ]
|  | >10 years |[ ]
| I have read the applicant’s Experiential Learning submission  |[ ]
| I am familiar with the applicant’s field of practice and vouch and verify that, to the best of my knowledge, their application represents a true and accurate record of their knowledge commensurate with the Engineering Council’s AHEP learning outcomes. |[ ]

Important notes

**Application word count**

* For holders of a partially accredited CEng degree/fully accredited IEng degree - 4,000 words in total (excluding appendices)
* For /IEng registrants – 8,000 words in total (excluding appendices).

|  |  |  |
| --- | --- | --- |
| **Section A** | **Subject area** | **Word Count** |
| **1** | **Science, Mathematics and Engineering Principles**  |  |
| **2** | **Problem Analysis** |  |
| **3** | **Analytical tools and techniques** |  |
| **4** | **Technical literature** |  |
| **5** | **Design** |  |
| **6** | **Sustainability** |  |
| **7** | **Teamwork** |  |
| **8** | **Communication** |  |
| **Section B** |  |
| **9** | **Integrated systems approach** |  |
| **10** | **Ethics** |  |
| **11** | **Risk** |  |
| **12** | **Security** |  |
| **13** | **Equality, Diversity & Inclusion** |  |
| **14** | **Engineering practice** |  |
|  | **Total Word Count** |  |

**Checklist**

Please ensure that the following documentation is included in your application and sent to education@ciht.org.uk as **one comprehensive PDF file**.

|  |  |
| --- | --- |
| Experiential Learning Application Form (Appendices should not exceed 50 sides of A4 paper) | [ ]  |
| Up-to-date CV | [ ]  |
| 2 Year CPD Record in your chosen format (minimum of 25 hours for each of the two previous years) | [ ]  |

**SECTION A – ALL APPLICANTS**

## Science, Mathematics and Engineering Principles

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| Apply a comprehensive knowledge of mathematics, statistics, natural science and engineering principles to the solution of complex problems, including critical awareness of new developments and the wider context of engineering. |
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## Problem Analysis

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| Formulate and analyse complex problems to reach substantiated conclusions, including evaluating available data using first principles of mathematics, statistics, natural science and engineering principles, and using engineering judgment to work with information that may be uncertain or incomplete, discussing the limitations of the techniques employed. |
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## Analytical tools and techniques

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| Select and apply appropriate computational and analytical techniques to model complex problems, identifying the limitations of the techniques employed. |
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## Technical literature

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| Select and critically evaluate technical literature and other sources of information to solve complex problems. |
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## Design

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| Design solutions for complex problems that evidence some originality and meet a combination of societal, user, business and customer needs as appropriate, including consideration of applicable health and safety, diversity, inclusion, cultural, societal, environmental and commercial matters, codes of practice and industry standards. |
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## Sustainability

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| Evaluate the environmental and societal impact of solutions to complex problems (to include the entire life cycle of a product or process) and minimise adverse impacts. |
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## Teamwork

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| Function effectively as an individual, and as a member or leader of a team. Evaluate effectiveness of own and team performance. |
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## Communication

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| Communicate effectively on complex engineering matters with technical and non-technical audiences, evaluating the effectiveness of the methods used. |
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**SECTION B – IENG REGISTRANTS ONLY**

## Integrated systems approach

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| Apply an integrated or systems approach to the solution of complex problems. |
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## Ethics

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| Identify and analyse ethical concerns and make reasoned ethical choices informed by professional codes of conduct. |
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## Risk

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| Use a risk management process to identify, evaluate and mitigate risks (the effects of uncertainty) associated with a particular project or activity. |
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## Security

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| Adopt a holistic and proportionate approach to the mitigation of security risks. |
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## Equality, Diversity & Inclusion

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| Adopt an inclusive approach to engineering practice and recognise the responsibilities, benefits, and importance of supporting equality, diversity and inclusion. |
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## Engineering practice

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| * Use practical laboratory and workshop skills to investigate complex problems.
* Select and apply appropriate materials, equipment, engineering technologies and processes, recognising their limitations.
* Discuss the role of quality management systems and continuous improvement in the context of complex problems.
* Apply knowledge of engineering management principles, commercial context, project and change management, and relevant legal matters including intellectual property rights.
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