# Technical Report Application Form – Stage 2

# Chartered Engineer

# 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.

Forename: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 or IAT Membership No: Click or tap here to enter text.Member  Fellow

Name of employer’s organisation: Click or tap here to enter text.

Employer’s 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.

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

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

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

# SPONSORS’ AUTHENTICATION OF TECHNICAL REPORT

|  |  |  |
| --- | --- | --- |
| **Please √ to confirm** | | |
| Current relationship with candidate: | Line Manager / Client |  |
| Professional or Business Associate / Peer |  |
| Other: Colleague | |
|  | | |
| I have known the candidate for: | 1-3 years |  |
| 4-10 years |  |
| >10 years |  |
| I have read the candidate’s Technical Report. | |  |
| I am familiar with the candidate’s field of practice and vouch and verify that, to the best of my knowledge, their Technical Report represents a true and accurate record of their knowledge commensurate with the Engineering Council’s AHEP learning outcomes. | |  |

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| **Sponsor’s Details** | |
| Forename: 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: |
| Company Address: | |
| Email: | Telephone: |
| Membership of Professional Bodies (Body & Grade): |  |
| Engineering Council registration level and number (if known): |  |
| Signature: | Date: |

ASSESSMENT DISCIPLINE**:**

|  |  |
| --- | --- |
| 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) |  |

Word count

The word count for the whole report should be no more than 8000 words. Please record your total word count for each section below.

|  |  |
| --- | --- |
| Science and mathematics |  |
| Engineering analysis |  |
| Design |  |
| The engineer and society |  |
| Engineering practice |  |
| **Total word count (excluding appendices)** |  |

Checklist

Please ensure that the following documentation is included in your Stage 2 application and sent to [education@ciht.org.uk](mailto:education@ciht.org.uk) as one comprehensive PDF file.

|  |  |
| --- | --- |
| Stage 2 Application Form (including completed Evidence Forms) |  |
| CV |  |
| 2 Year CPD Record (minimum of 25 hours for each of the 2 previous years) |  |

## Science and Mathematics

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| **Explain how you meet each learning outcome including reference to appendices** |
| **M1 – Science, mathematics and engineering principles:** Apply a comprehensive knowledge of mathematics, statistics, natural science and engineering principles to the solution of complex problems. Much of the knowledge will be at the forefront of the particular subject of study and informed by a critical awareness of new developments and the wider context of engineering. |
|  |
| **Word Count** |

## Engineering Analysis

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| **Explain how you meet each learning outcome including reference to appendices** |
| **M2 – Problem Analysis:** Formulate and analyse complex problems to reach substantiated conclusions. This will involve 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. |
|  |
| **M3 – Analytical tools and techniques:** Select and apply appropriate computational and analytical techniques to model complex problems, discussing the limitations of the techniques employed |
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| **M4 – Technical Literature:** Select and critically evaluate technical literature and other sources of information to solve complex problems. |
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| **Word Count** |

## Design and innovation

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| **Explain how you meet each learning outcome including reference to appendices** |
| **M5 – Design:** Design solutions for complex problems that evidence some originality and meet a combination of societal, user, business and customer needs as appropriate. This will involve consideration of applicable health and safety, diversity, inclusion, cultural, societal, environmental and commercial matters, codes of practice and industry standards |
|  |
| **M6 – Integrated/systems approach** – Apply an integrated or systems approach to the solution of complex problems |
|  |
| **Word Count** |

## The engineer and society

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| **Explain how you meet each learning outcome including reference to appendices** |
| **M7 – Sustainability:** Evaluate the environmental and societal impact of solutions to complex problems (to include the entire lifecycle of a product or process) and minimise adverse impacts. |
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| **M8 – Ethics:** Identify and analyse ethical concerns and make reasoned ethical choices informed by professional codes of conduct |
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| **M9 – Risk:** 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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| **M10 – Security:** Adopt a holistic and proportionate approach to the mitigation of security risks |
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| **M11 – Equality, diversity and inclusion:** Adopt an inclusive approach to engineering practice and recognise the responsibilities, benefits and importance of supporting equality, diversity and inclusion. |
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| **Word Count** |

## Engineering practice

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| **Explain how you meet each learning outcome including reference to appendices** |
| **M12 – Practical and workshop skills:** Use practical laboratory and workshop skills to investigate complex problems |
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| **M13 –** **Materials, equipment, technologies and processes:** Select and apply appropriate materials, equipment, engineering technologies and processes, recognising their limitations. |
|  |
| **M14 – Quality management:** Discuss the role of quality management systems and continuous improvement in the context of complex problems. |
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| **M15 – Engineering and project management:** Apply knowledge of engineering management principles, commercial context, project and change management, and relevant legal matters including intellectual property rights |
|  |
| **M16 – Teamwork:** Function effectively as an individual, and as a member or leader of a team. Evaluate effectiveness of own and team performance |
|  |
| **M17 – Communication:** Communicate effectively on complex engineering matters with technical and non-technical audiences, evaluating the effectiveness of the methods used |
|  |
| **M18 – Lifelong learning:** Plan and record self-learning and development as the foundation for lifelong learning/CPD |
|  |
| **Word Count** |

## Appendices and bibliography

Please include a bibliography if appropriate.

Please include no more than 50 pages of appendices which should be clearly referenced in the report above