

## APPLICATION FOR APPROVAL OF A IENG EMPLOYER-MANAGED FURTHER LEARNING PROGRAMME

**When completing this application form, please refer to the relevant JBM guidance notably those setting out the requirements of Further Learning programmes and of the various roles.**

**1. Employer** – *name and registered address of organisation making application*

**2. Supervising Engineer** – *name and contact details (including telephone and email) of the Supervising Engineer who will be managing the Further Learning Programme*

**3. Assessors** – *name and contact details (including telephone and email) of the Assessors who will support this process, if known at this stage*

**4. Internal Verifier** - *name and contact details (including telephone and email) of the Internal Verifier, if known at this stage. Please note that the internal verifier must be a different person from the Supervising Engineer and from the Assessors.*

## 5. Programme Overview

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## 6. Programme Summary

Please refer to the guidance in the FL Requirements Document, which gives a full explanation of the necessary balance of Learning Outcomes to be addressed.

Please insert 'n/a' against any Learning Outcomes not addressed.

| No.                     | Learning Outcomes:<br>By the end of the programme Graduates will be able to demonstrate the following:  | Learning Activity | Participants' evidence and assessment methods |
|-------------------------|---|-------------------|---|
| Science and Mathematics |   |                   |   |
| i                       | Knowledge and understanding of scientific principles underpinning relevant current technologies and their evolution.;                                     |                   |   |
| ii                      | Knowledge and understanding of the mathematics and an awareness of statistical methods necessary to support the application of key engineering principles |                   |   |

| Engineering Analysis |   |  |  |
|----------------------|---|--|--|
| iii                  | Ability to monitor, interpret and apply the results of analysis and modelling in order to bring about continuous improvement                    |  |  |
| iv                   | Ability to apply quantitative methods in order to understand the performance of systems and components.   |  |  |
| v                    | Ability to use the results of engineering analysis to solve engineering problems and to recommend appropriate action                            |  |  |
| vi                   | Ability to apply an integrated or systems approach to engineering problems through know-how of the relevant technologies and their application. |  |  |
| Design               |   |  |  |
| vii                  | Be aware of business, customer and user needs, including considerations such as the wider engineering context, public perception and aesthetics |  |  |

|      |   |  |  |
|------|---|--|--|
| viii | Define the problem, identifying any constraints including environmental and sustainability limitations; ethical, health, safety, security and risk issues; intellectual property; codes of practice and standards |  |  |
| ix   | Work with information that may be incomplete or uncertain and be aware that this may affect the design  |  |  |
| x    | Apply problem-solving skills, technical knowledge and understanding to create or adapt design solutions that are fit for purpose including operation, maintenance, reliability etc.                               |  |  |
| xi   | Manage the design process, including cost drivers, and evaluate outcomes  |  |  |
| xii  | Communicate their work to technical and non-technical audiences   |  |  |

| Economic, legal, social, ethical and environmental context |  |  |  |
|--|--|--|--|
| xiii   | Understanding of the need for a high level of professional and ethical conduct in engineering and a knowledge of professional codes of conduct   |  |  |
| xiv  | Knowledge and understanding of the commercial, economic and social context of engineering processes  |  |  |
| xv   | Knowledge of management techniques which may be used to achieve engineering objectives.  |  |  |
| xvi  | Understanding of the requirement for engineering activities to promote sustainable development   |  |  |
| xvii   | Awareness of relevant legal requirements governing engineering activities, including personnel, health & safety, contracts, intellectual property rights, product safety and liability issues. |  |  |
| xviii  | Awareness of risk issues, including health & safety, environmental and commercial risk.  |  |  |

| Engineering Practice |  |  |  |
|----------------------|--|--|--|
| xix                  | Knowledge of contexts in which engineering knowledge can be applied (e.g., operations and management, application and development of technology, etc.) |  |  |
| xx                   | Understanding of and ability to use relevant materials, equipment, tools, processes, or products   |  |  |
| xxi                  | Knowledge and understanding of workshop and laboratory practice  |  |  |
| xxii                 | Ability to use and apply information from technical literature   |  |  |
| xxiii                | Ability to use appropriate codes of practice and industry standards  |  |  |
| xxiv                 | Awareness of quality issues and their application to continuous improvement  |  |  |
| xxv                  | Awareness of team roles and the ability to work as a member of an engineering team   |  |  |

| Additional General Skills |   |  |  |
|---------------------------|---|--|--|
| xxvi                      | Apply their skills in problem solving, communication, information retrieval, working with others and the effective use of general IT facilities |  |  |
| xxvii                     | Plan self-learning and improve performance, as the foundation for lifelong learning/CPD   |  |  |
| xxviii                    | Plan and carry out a personal programme of work   |  |  |
| xxix                      | Exercise personal responsibility, which may be as a team member.  |  |  |

**Total estimated planned contact learning time:**

**Total estimated planned overall learning time:**

**7. Assessment – Describe briefly the frequency of the assessment and how this will be recorded?**

**8. Internal Verification – Describe briefly how the internal verification will be carried out and recorded?**

**Please return your completed application form and supporting information to:-**

**JOINT BOARD OF MODERATORS**

One Great George Street,  
Westminster,  
London, SW1P 3AA