

# IEng Competence Statement

**PRIVATE AND CONFIDENTIAL WHEN COMPLETE**  
**STATEMENT OF COMPETENCES TO BE FILLED IN BY APPLICANTS FOR IEng**  
**TO BE RETURNED WITH YOUR APPLICATION FORM**

The following information provides examples showing how you consider that you meet the competences for Incorporated Engineer as set out in the Engineering Council UK Standard for Professional Engineering Competence and Commitment (UK-SPEC) Fourth Edition.

You may use as few or as many words as you feel are appropriate to convey your evidence for each competency. However, it would be appreciated if you could keep it short and concise at under 300 words per competence

Incorporated Engineers must be competent throughout their working life, by virtue of their education, training and experience, to:

**A. Use of combination of general and specialist engineering knowledge and understanding to apply existing and emerging technology.**

**A1. Maintain and extend a sound theoretical approach to the application of technology in engineering practice.**

Examples of evidence:

- Identify the limits of your knowledge and skills
- Taking steps to develop and extend person knowledge of appropriate technology, both current and emerging
- Applying newly gained knowledge successfully in a task or project
- Reviewing current procedures and processes and recommended improvements or changes to reflect best practice
- Developing knowledge needed to work in a new industry area or discipline

Please type your responses below:

**A2. Use a sound evidence-based approach to problem-solving and contribute to continuous improvement.**

Examples of evidence:

- Applying knowledge and experience to investigate and solve problems arising during engineering tasks and implementing corrective action
- Identifying opportunities for improvements and how these have been (or could be) implemented
- Using an established process to analyse issues and establish priorities

Please type your responses below:

**B. Apply appropriate theoretical and practical methods to design, develop, manufacture, construct, commission, operate, maintain, decommission and re-cycle engineering processes, systems, services and products.**

**B1. Identify, review and select techniques, procedures and methods to undertake engineering tasks.**

Examples of evidence:

- Establishing the engineering steps needed to carry out a task efficiently
- Identifying the available products or processes needed to undertake an engineering task and establishing a means of identifying the most suitable solution
- Preparing technical specifications
- Reviewing and comparing responses to the technical aspects of tender invitations
- Establishing user requirements for improvements

Please type your responses below:

**B2. Contribute to the design and development of engineering solutions.**

Examples of evidence:

- Contributing to the identification and specification of design and development requirements for engineering products, processes, systems and services
- Identifying operational risks and evaluating possible engineering solutions, taking account of cost, quality, safety, reliability, accessibility, appearance, fitness for purpose, security (including cyber security), intellectual property constraints and opportunities, and environmental impact
- Collecting and analysing results
- Carrying out necessary tests

Please type your responses below:

**B3. Implement design solutions for equipment or processes and contribute to their evaluation.**

Examples of evidence:

- Identifying the resources required for implementation
- Implementing design solutions, taking account of critical constraints, including due concern for safety and sustainability
- Identifying problems during implementation and taking corrective action
- Contributing to recommendations for improvement and actively learning from feedback on results

Please type your responses below:

**C. Provide technical and commercial management.**

**C1. Plan the work and resources needed to enable effective implementation of engineering tasks and projects.**

Examples of evidence:

- Identifying factors affecting the project implementation
- Carrying out holistic and systematic risk identification, assessment and management
- Preparing and agreeing implementation plans and method statements
- Securing the necessary resources and confirming roles in a project team
- Applying the necessary contractual arrangements with other stakeholders (clients, subcontractors, suppliers, etc)

Please type your responses below:

**C2. Manage (organise, direct and control), programme or schedule, budget and resource elements of engineering tasks or projects.**

Examples of evidence:

- Operating appropriate management systems
- Working to the agreed quality standards, programme and budget, within legal and statutory requirements
- Managing work teams, coordinating project activities
- Identifying variations from quality standards, programme and budgets, and taking corrective action
- Evaluating performance and recommending improvements

Please type your responses below:

**C3. Manage teams, or the input of others, into own work and assist others to meet changing technical and management needs.**

Examples of evidence:

- Agreeing objectives and work plans with teams and individuals
- Reinforcing team commitment to professional standards
- Leading and supporting team and individual development
- Assessing team and individual performance, and providing feedback
- Seeking input from other teams or specialists where needed and managing the relationship

Please type your responses below:

**C4. Take an active role in continuous quality improvement.**

Examples of evidence:

- Ensuring the application of quality management principles by team members and colleagues
- Managing operations to maintain quality standards eg ISO 9000, EQFM
- Evaluating projects and making recommendations for improvement
- Implementing and sharing results of lessons learnt

Please type your responses below:

**D. Demonstrate effective communication and interpersonal skills.**

**D1. Communicate effectively with others, at all levels, in English.**

Examples of evidence:

- Contributing to, chairing and recording meetings and discussions
- Preparing communications, documents and reports on technical matters
- Exchanging information and providing advice to technical and non-technical colleagues
- Engaging or interacting with professional networks

Please type your responses below:

**D2. Clearly present and discuss proposals, justifications and conclusions.**

Examples of evidence:

- Preparing and delivering appropriate presentations
- Managing debates with audiences
- Feeding the results back to improve the proposals
- Contributing to the awareness of risk

Please type your responses below:

**D3. Demonstrate personal and social skills and awareness of diversity and inclusion issues.**

Examples of evidence:

- Knowing and managing own emotions, strengths and weaknesses
- Being confident and flexible in dealing with new and changing interpersonal situations
- Identifying, agreeing and working towards collective goals
- Creating, maintaining and enhancing productive working relationships, and resolving conflicts
- Being supportive of the needs and concerns of others, especially where this relates to diversity and inclusion

Please type your responses below:

**E. Demonstrate a personal commitment to professional standards, recognising obligations to society, the profession and the environment.**

**E1. Understand and comply with relevant codes of conduct.**

Examples of evidence:

- Demonstrating compliance with your Licensee's Code of Professional Conduct
- Identifying aspects of the Code particularly relevant to your role
- Managing work within all relevant legislative and regulatory frameworks, including social and employment legislation

Please type your responses below:

**E2. Understand the safety implications of your role and manage, apply and improve safe systems of work.**

Examples of evidence:

- Identifying and taking responsibility for your own obligations for health, safety and welfare issues
- Managing systems that satisfy health, safety and welfare requirements
- Developing and implementing appropriate hazard identification and risk management systems and culture
- Managing, evaluating and improving these systems
- Applying a sound knowledge of health and safety legislation, for example: HASAW 1974, CDM regulations, ISO 45001 and company safety policies

Please type your responses below:

**E3. Understand the principles of sustainable development and apply them in your work.**

Examples of evidence:

- Operating and acting responsibly, taking account of the need to progress environmental, social and economic outcomes simultaneously
- Recognising how sustainability principles, as described in the Guidance on Sustainability on page 48 can be applied in your day-to-day work
- Providing products and services which maintain and enhance the quality of the environment and community, and meet financial objectives
- Understanding and encouraging stakeholder involvement in sustainable development
- Using resources efficiently and effectively
- Taking action to minimise environmental impact in your area of responsibility

Please type your responses below:

**E4. Carry out Continuing Professional Development necessary to maintain and enhance competence in your own area of practice.**

Examples of evidence:

- Undertaking reviews of your own development needs
- Planning how to meet personal and organisational objectives
- Carrying out planned, and unplanned, CPD activities
- Maintaining evidence of competence development
- Evaluating CPD outcomes against the plans made
- Assist others with their own CPD

Please type your responses below:

**E5. Carry out Continuing Professional Development necessary to maintain and enhance competence in your own area of practice.** Examples of evidence:

- Understanding the ethical issues that you may encounter in your role
- Giving an example of where you have applied ethical principles as described in the Statement of Ethical Principles on page 47
- Giving an example of where you have applied or upheld ethical principles as defined by your organisation or company

Please type your responses below: