








VOICE OF THE EXPLOSIVES INDUSTRIES

# Professional Registration Workshop

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# Workshop

What we will do today:

-  Why do this?
-  Who
-  What
-  UK SPEC competency
-  How
-  Example
-  Q&A





# Why seek Professional Registration?

Registration as a Engineering Technician (EngTech), Incorporated Engineer (IEng) or Chartered Engineer (CEng):




-  Identifies you as having valuable competencies and commitment to your profession.
-  Sets you apart as a highly skilled professional who works in an ethical and sustainable manner.
-  Shows that your competencies have been independently assessed and are internationally recognised.
-  Demonstrates your commitment to employers, clients, colleagues and your profession as a whole.

# Why seek Professional Registration?

Can also:

-  Increase your earning potential
-  Advance your career progression
-  Provide greater career mobility
-  Give you opportunities to exchange and enhance knowledge within communities of practice to support continuous professional development for yourself and others

# Value of Professional Registration to employers

-  Employing registered engineers is a clear indicator of Professional Competency when being Audited by external agencies.
-  Registered engineers are an assurance that practices and procedures are under control and operating at the appropriate level of quality aligned to national and international standards / contracted agreements.
-  It is becoming common practice for employers to require staff, who hold positions of responsibility (certification sign off), to be Professionally Registered with an appropriate Professional Engineering Institution.



### Engineering Technicians (EngTech)

- **apply** proven techniques and procedures to the solution of practical engineering problems.



### Incorporated Engineers (IEng)

- **maintain and manage** applications of current and developing technology, and may undertake engineering design, development, manufacture, construction and operation.



### Chartered Engineers (CEng)






- **develop** solutions to engineering problems using new or existing technologies, through innovation, creativity and change and/or they may have technical accountability for complex systems with significant levels of risk.

# What registration does IExpE offer?

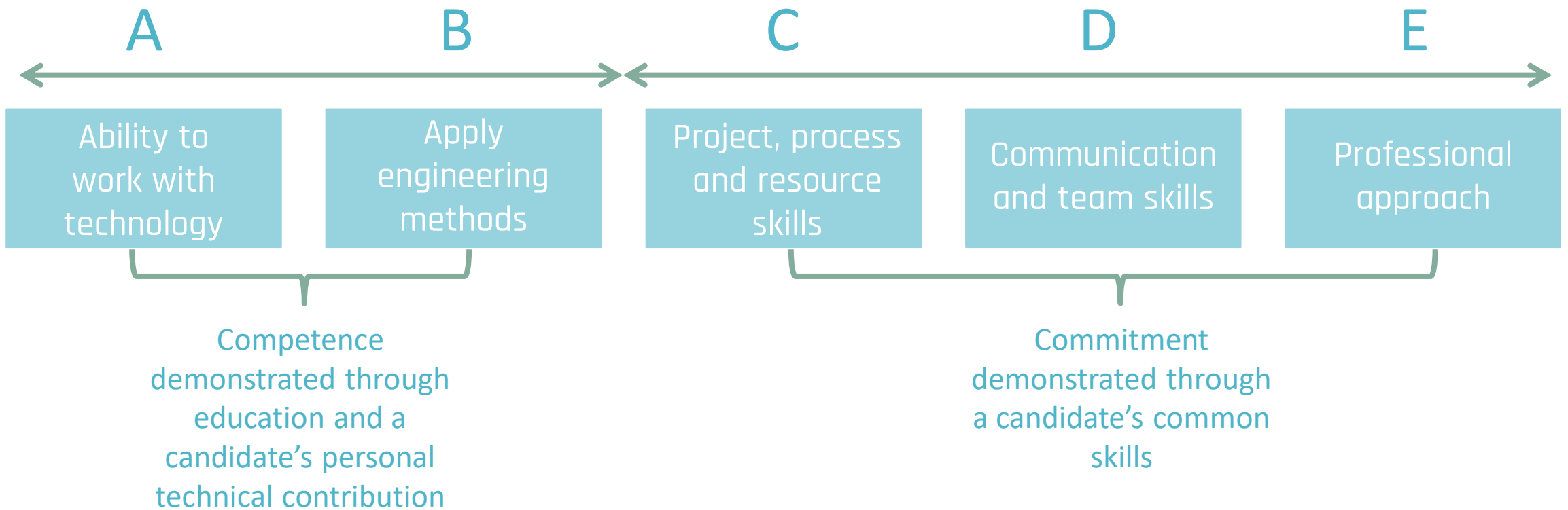
# UK-SPEC

The UK SPEC sets out the threshold generic competence and commitment standards for registration as an Engineering Technician, Incorporated Engineer or Chartered Engineer, and includes some examples of the kind of evidence that would help to demonstrate these.

There are five generic areas of competence and commitment for all registrants, broadly covering:

-  A - Knowledge and understanding
-  B - Design and development of processes, systems, services and products
-  C - Responsibility, management or leadership
-  D - Communication and inter personal skills
-  E - Professional commitment

# UK-SPEC







Become a member – It is necessary to be a member of IExpE to access the process.



Go to the IExpE website – the application process and forms can be accessed via [www.iexpe.org](http://www.iexpe.org) on the “Careers & Development” area of the website.



#### GET A MENTOR or PRA

Complete the application form and statement of competence – document your competence and commitment. List your education, your work history and submit your references. Work through the Statement of Competences with your Professional Registration Advisor (PRA) listing your workplace evidence in line with the criteria laid out in the UK-SPEC. Please remember applications are typically more successful where the advice of a PRA has been taken.



Submit and pay – Return the forms and supporting documents to [vickihall@iexpe.org](mailto:vickihall@iexpe.org). Payment can be made over the phone, via bank transfer or cheque.

# How do I apply?

Competence		Examples of evidence
<p><b>C. Responsibility, management and leadership</b></p> <p><b>Engineering Technicians shall accept and exercise personal responsibility.</b></p> <p>This competence is about the ability to plan and manage the applicant's own work effectively and efficiently. It is also about the ability to consider and identify improvements to maintain quality in their work.</p>	<p>The applicant shall demonstrate that they:</p>	<ul style="list-style-type: none"> <li>• Completing challenging tasks successfully within your area of work</li> <li>• Identifying issues which fall outside of your current knowledge and seeking advice</li> <li>• Identifying standards and codes of practice relevant to a new task</li> </ul>
	<p>1. Work reliably and effectively without close supervision, to the appropriate codes of practice</p>	<ul style="list-style-type: none"> <li>• Fully understanding drawings, permits to work, instructions or other similar documents after appropriate checking, and identifying issues</li> <li>• Inspecting work carried out by others</li> <li>• Checking the status of equipment, the work environment and facilities and taking appropriate actions before commencing work</li> </ul>
	<p>2. Accept responsibility for the work of themselves or others</p>	<ul style="list-style-type: none"> <li>• Ensuring that the scope of a task is clear before accepting and/or allocating it to others</li> <li>• Querying any aspect of a task which is not clear and/or providing an explanation if a query is raised by others</li> <li>• Learning from your own experience and/or providing constructive feedback when supervising or working with others</li> </ul>
	<p>3. Accept, allocate and supervise technical and other tasks.</p>	

Competence		Examples of evidence
<p><b>D. Communication and interpersonal skills</b></p> <p><b>Engineering Technicians shall use effective communication and interpersonal skills.</b></p> <p>This is the ability to work with others constructively, to explain ideas and proposals clearly and to discuss issues objectively and constructively.</p>	<p>The applicant shall demonstrate that they:</p> <p>1. Communicate effectively with others, at all levels, in English</p>	<ul style="list-style-type: none"> <li>• Contributing to meetings and discussions</li> <li>• Preparing communications, documents and reports on technical matters</li> <li>• Exchanging information and providing advice to technical and non-technical colleagues</li> </ul>
	<p>2. Work effectively with colleagues, clients, suppliers or the public</p>	<ul style="list-style-type: none"> <li>• Contributing constructively as part of a team</li> <li>• Successfully resolving issues in discussions with team members, suppliers, clients and/or others</li> <li>• Persuading others to accept suggestions or recommendations</li> <li>• Identifying, agreeing and working towards collective goals</li> </ul>
	<p>3. Demonstrate personal and social skills and awareness of diversity and inclusion issues.</p>	<ul style="list-style-type: none"> <li>• Knowing and managing own emotions, strengths and weaknesses</li> <li>• Being confident and flexible in dealing with new and changing interpersonal situations</li> <li>• Creating, maintaining and enhancing productive working relationships, and resolving conflicts</li> <li>• Being supportive of the needs and concerns of others, especially where this relates to diversity and inclusion</li> </ul>

Competence		Examples of evidence
<p><b>E. Personal and professional commitment</b></p> <p><b>Engineering Technicians shall demonstrate commitment to an appropriate code of professional conduct, recognising obligations to society, the profession and the environment.</b></p> <p>This competence is about ensuring that the applicant is acting in a professional manner in their work and in their dealings with others. An Engineering Technician should set a standard and example to others with regard to professionalism.</p>	<p>This shall include the ability to:</p> <p>1. Understand and comply with relevant codes of conduct</p>	<ul style="list-style-type: none"> <li>• Demonstrating compliance with your Licensee's Code of Professional Conduct</li> <li>• Working within all relevant legislative and regulatory frameworks, including social and employment legislation</li> </ul>
	<p>2. Understand the safety implications of their role and apply safe systems of work</p>	<ul style="list-style-type: none"> <li>• Providing evidence of applying current safety requirements, such as risk assessment and other examples of good practice you adopt in your work</li> <li>• A sound knowledge of health and safety legislation, for example: HASAW 1974, CDM regulations, ISO 45001 and company safety policies</li> </ul>
	<p>3. Understand the principles of sustainable development and apply them in their work</p>	<ul style="list-style-type: none"> <li>• Recognising how sustainability principles, as described in the Guidance on Sustainability on page 48, can be applied in your day-to-day work</li> <li>• Identifying actions that you can and have taken to improve sustainability</li> </ul>
	<p>4. Carry out and record the Continuing Professional Development (CPD) necessary to maintain and enhance competence in their own area of practice</p>	<ul style="list-style-type: none"> <li>• Undertaking reviews of your own development needs</li> <li>• Planning how to meet personal and organisational objectives</li> <li>• Carrying out and recording planned and unplanned CPD activities</li> <li>• Maintaining evidence of competence development</li> <li>• Evaluating CPD outcomes against any plans made</li> <li>• Assisting others with their own CPD</li> </ul>
	<p>5. Understand the ethical issues that may arise in their role and carry out their responsibilities in an ethical manner.</p>	<ul style="list-style-type: none"> <li>• Understanding the ethical issues that you may encounter in your role</li> <li>• Giving an example of where you have applied ethical principles as described in the Statement of Ethical Principles on page 47</li> <li>• Giving an example of where you have applied or upheld ethical principles as defined by your organisation or company</li> </ul>

# UK-SPEC Competencies

Improved guidance on how thoroughly applicants need to demonstrate each competence:

- A Chartered/Incorporated Engineer/Engineering Technician will be able to demonstrate their competence in all of the areas listed, but the depth and extent of their experience and competence will vary with the nature and requirements of their role. They will demonstrate a level of competence and commitment in each area (A1 E5) at a level which is consistent with their specific role.
- It is to be expected that they will have a higher level of competence in some areas than others and their role may provide limited experience in certain areas.
- However, they need to demonstrate an understanding of, and familiarity with, the key aspects of competence in all areas as a minimum requirement while demonstrating higher levels of competence in those areas which are critical to their role.
- Overall, they must demonstrate an appropriate balance of competences to perform their role effectively at Chartered/Incorporated Engineer/Engineering Technician level.

# Examples and Q&A



Institute of  
Explosives  
Engineers

VOICE OF THE EXPLOSIVES INDUSTRIES

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