RECOGNISING TECHNICAL EXCELLENCE

Institution of MECHANICAL ENGINEERS

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www.imeche.org

Improving the world through engineering

WHO ARE WE?

IMPROVING THE WORLD THROUGH ENGINEERING

THE UK'S LEADING PROFESSIONAL ENGINEERING INSTITUTION

HERITAGE SINCE 1847

FORWARD LOOKING & CAMPAIGNING

CAPACITY TO DELIVER

UK NEEDS

87,000

LEVEL 4+ ENGINEERS EACH YEAR TO MEET DEMAND

UK PRODUCES

51,000

LEVEL 4+ ENGINEERS EACH YEAR

UK NEEDS

69,000

LEVEL 3 ENGINEERING APPRENTICESHIPS EACH YEAR

UK PRODUCES

23,500

LEVEL 3 ENGINEERING APPRENTICESHIPS EACH YEAR

Source: The State of Engineering. Engineering UK 2014

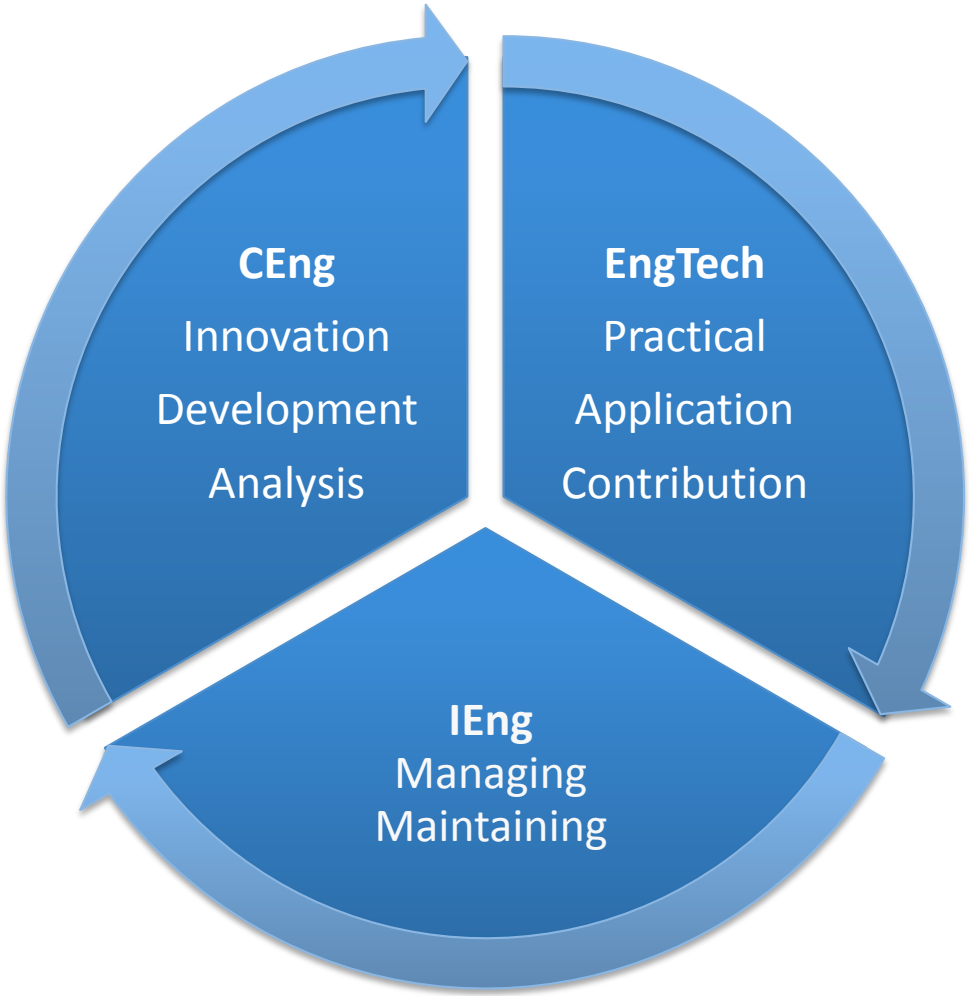
INSPIRING THE NEXT GENERATION

PROFESSIONAL REGISTRATION

PROFESSIONAL REGISTRATION.

Professionally registered engineers & technicians...

- Embrace change
- Are adaptive and creative
- Are technically sound
- Are commercially aware
- Are committed to their profession and personal development

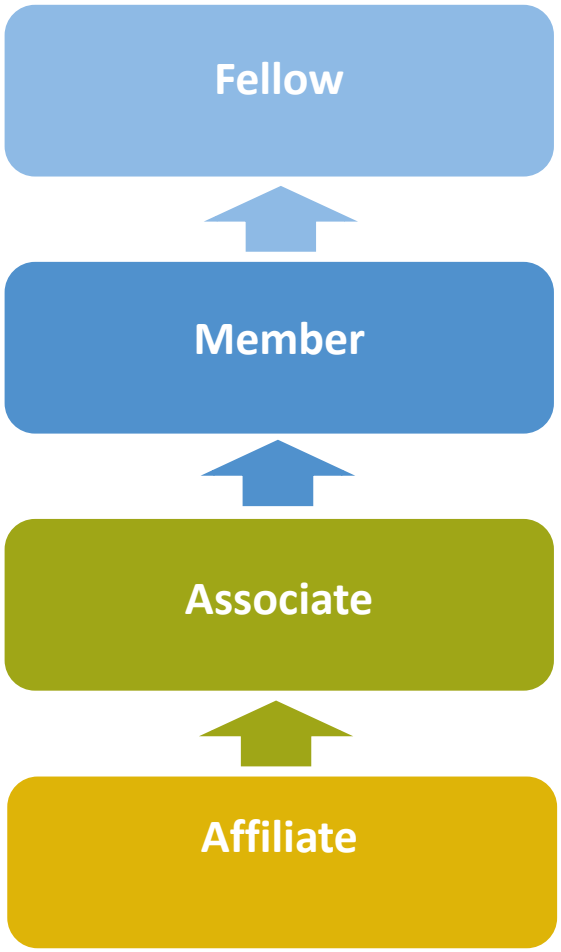


BENEFITS OF PROFESSIONAL REGISTRATION.

- International recognition of your competence.
- Career enhancement, creating opportunities.
- Increased earning potential.
- Ongoing development.
- Be part of a professional Institution.
- Professional post-nominals (EngTech/IEng/Ceng MIMechE).

Gavin Kirby, EngTech MIMechE
Quality Engineer, Superior

LEVELS OF PROFESSIONAL REGISTRATION



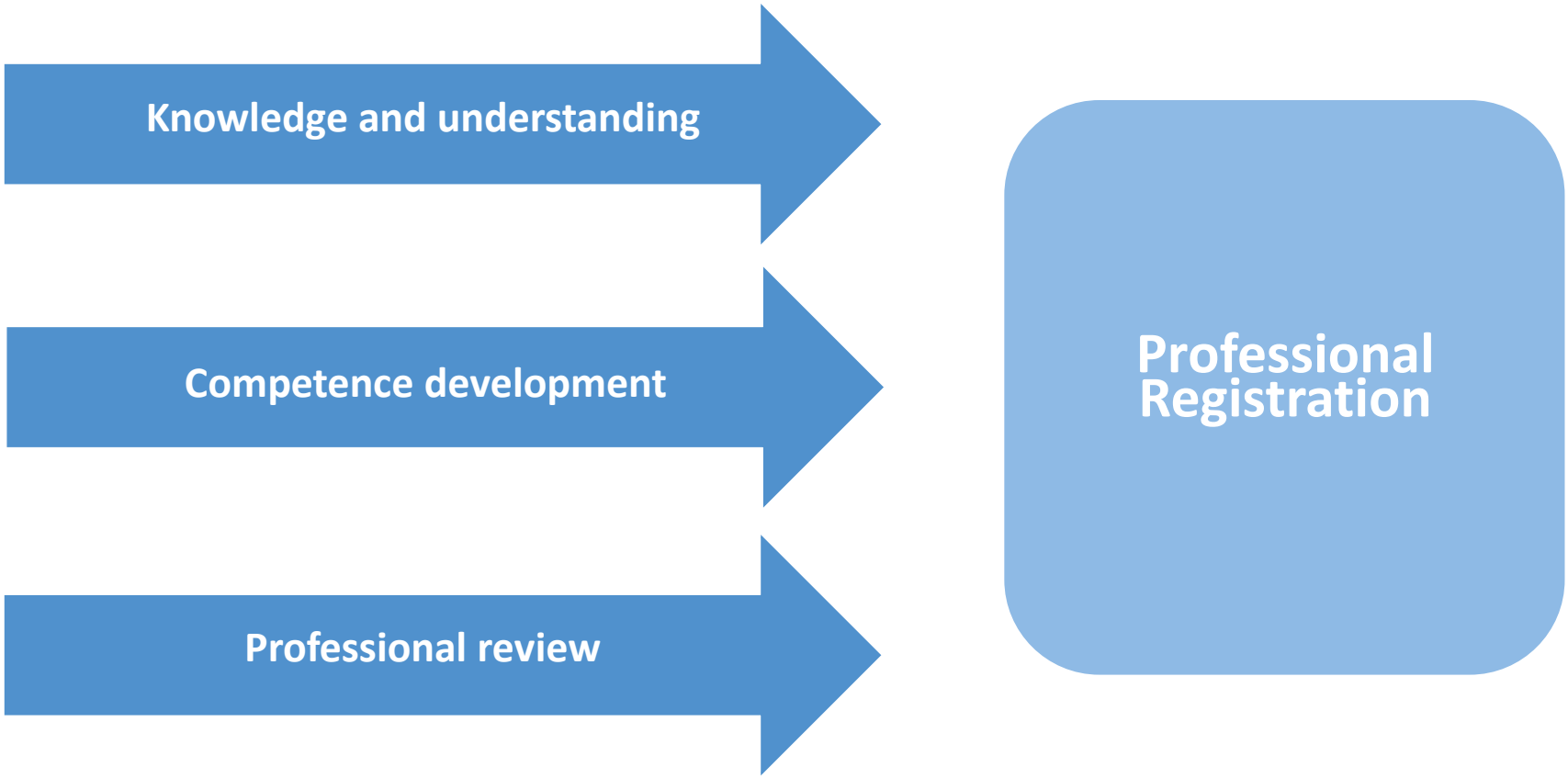
CEng/IEng/EngTech FIMechE

CEng/IEng/EngTech MIMechE

AMIMechE

THE JOURNEY

UK SPEC highlights that there is a route to professional registration for all competent engineers & technicians



KNOWLEDGE AND UNDERSTANDING

EngTech

NC/ND (OND)
NVQ3/SVQ3
City and Guilds
B TEC
SCOTVEC
Tech Certificate from
Approved Apprentice
Programme

EXPERIENCE CAN COUNT IN LIEU OF QUALIFICATIONS

KNOWLEDGE AND UNDERSTANDING

IEng

CEng

BEng / BSc

MEng

HNC/HND
Foundation degree
+
Further
Learning

BEng (Hons)
+
Further
Learning

UK-SPEC COMPETENCIES

COMPETENCE IS ...

The ability to perform an activity;

- Correctly
- Safely
- Effectively
- Consistently

Gained;

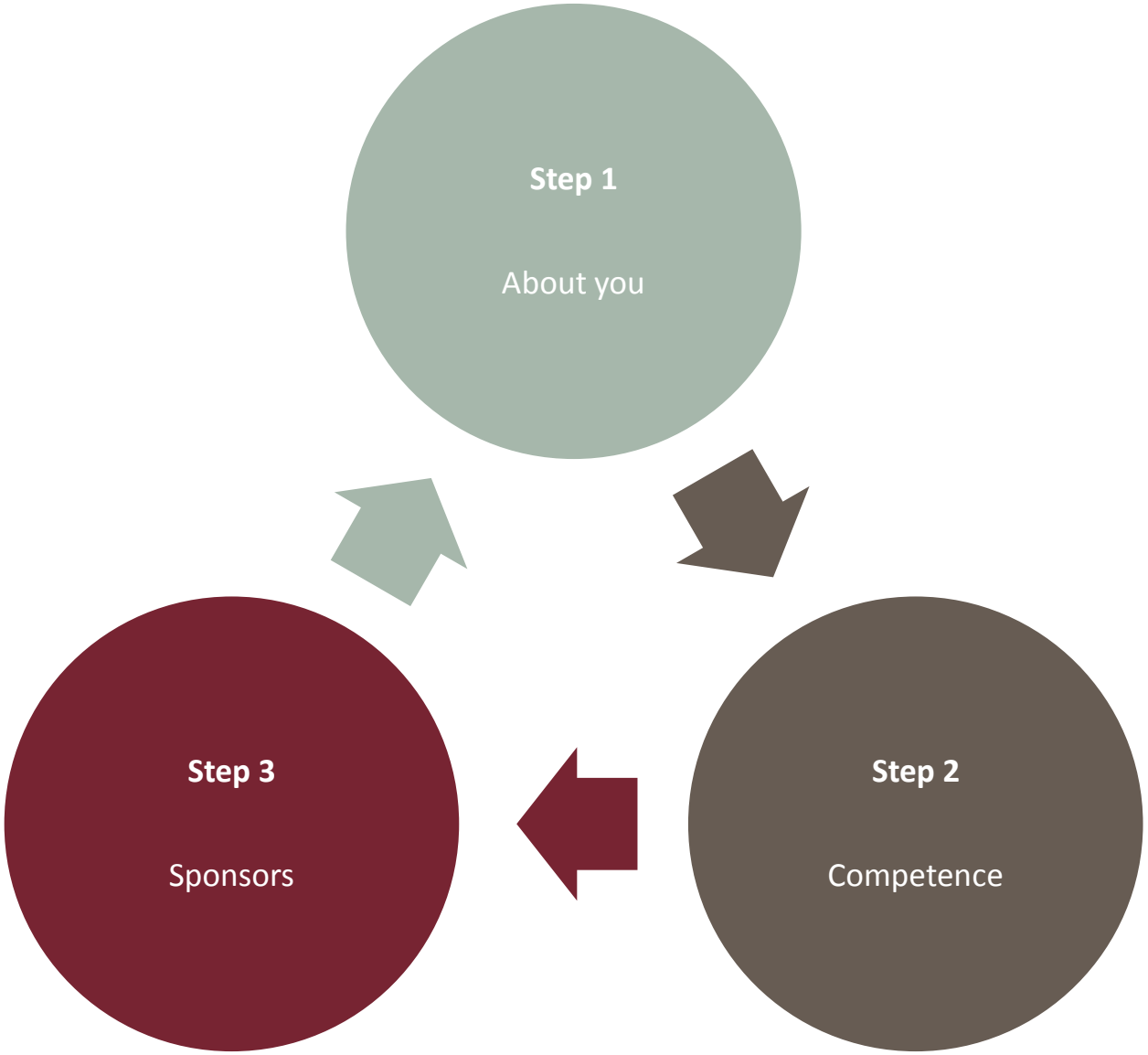
- Directly (personal observations & questioning).
- Indirectly (other qualified assessors, line mangers etc).
- Through products (project activities, design etc).
- Other (courses, visits to suppliers, other companies etc).

ENGINEERING TECHNICIAN COMPETENCE REQUIREMENTS.

The following are the UK-SPEC competences required to achieve EngTech grade registration:

- **Competence A: Knowledge and Understanding**
  Use engineering knowledge and understanding to apply technical and practical skills.
- **Competence B. Practical Application**
  Contribute to the design, development, manufacture, construction, commissioning, operation or maintenance of products, equipment, systems or services.
- **C. Accept and exercise personal responsibility**
  Accept and exercise personal responsibility
- **D. Communication and Interpersonal skills**
  Use effective communication and interpersonal skills
- **E. Professional Conduct**
  Make a personal commitment to an appropriate code of professional conduct, recognising obligations to society, the professional and the environment.

APPLICATION PROCESS
ENG TECH



QUESTION 1

Give an example of a project or task where you solved a technical problem, explaining your role and how you selected the appropriate techniques, procedures and methods used.

Tell us about any scientific, technical or engineering principles you used and how you reported or made recommendations on what you did to your employer or other people involved such as clients or suppliers. Include anything you did to prevent harm to people, equipment or data.

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QUESTION 2

Give an example of how you have identified, planned, and organised the resources needed to effectively complete a project, explaining how you took into consideration cost, quality, safety and any environmental impact.

Remember to think about what equipment was used, how data was gathered and analysed and how you initiated the project to produce the desired outcome.

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QUESTION 3

Give an example of how you have complied with the Institution's Code of Conduct, how you keep in touch with developments in your technical area and how you have continued to develop your knowledge and skills?

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MEMBERSHIP BENEFITS

Wherever you are, get the support & information you need.

- Library & resource centre
- Support Network
- Access to leading engineering information databases
- PE Magazine
- Prizes and awards
- Events & networking
- Learning & development
- Career Guidance and Support
- Access to a range of benefits – legal, financial

Nicole McLatchley, EngTech MIMechE

WHAT IT MEANS TO BE PROFESSIONALLY REGISTERED

“”

EngTech gave people instant recognition and confidence that I had the skills and knowledge to be trusted as a professional engineer.

My EngTech was very important to my career. It set the standard, and put me on a career path for progression.

Stephen Pilling
CEng FIMechE

“Affiliate membership progressing to EngTech (ready)”
A Training Providers perspective

Bob Watmore, Training & Assessment Manager DTA, Malton

- Requires passion from the top to explain why and drive applications.
- Very limited employer understanding and support from small employers.
- Very good opportunity to increase the approved/recognised ‘professionalism’ of our sector and the internal to employers and external visibility of professional status.
- But with limited role models, lack of employer recognition and financial support, and only slowly changing societal recognition of Technician Engineering it still a hard sell.
- Encouraging Training & Assessment staff to EngTech, IEng and CEng with some success
- Current voluntary situation could be significantly supported by a more mandatory feel to achieving EPA for Standard and EngTech ready.
- Examples of ElectroTech sector (AM2) and Major Infrastructure Sites demanding a Level 3 Vocational competence to enter ‘site’ could help create a common requirement for EngTech grade

Case Study – Progress since 2013

- Engaged IMechE in Centre Assessment and Approval in late 2013
- Scheme Approval granted 3/2/2014 and then IET 18/8/2015

- IMechE Affiliate registrations at £0 for period of apprenticeship:
  2013 = 10; 2014 = 33; 2015 = 34; 2016 = 22
- Advanced Apprenticeship programme is 4 years so first ‘EngTech’ ready cohort in 2017
- Very limited use of online CPD – better with Higher Apprentices (mandatory Unit on HND)
- Struggling to get interest in Young Member groups and/or events
- Intend to engage IMechE in a cohort EngTech registration process around ’graduation’ from the scheme in mid 2017

THANK YOU

For more information please contact:

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