



THE PWI

PROFESSIONAL REGISTRATION with the PWI

NR Track Renewals Engineering Conference
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Liz Turner, Registration Manager



THE PWI

The PWI was founded in **1884** as a learned society with a number of objectives:

- To promote the advancement of technical training
- To acquire and share scientific knowledge
- To adopt a standard competency
- To provide a certificate or diploma of competence to any person who meets the requirements

In recent years, the focus has widened to encompass Railway Engineering.

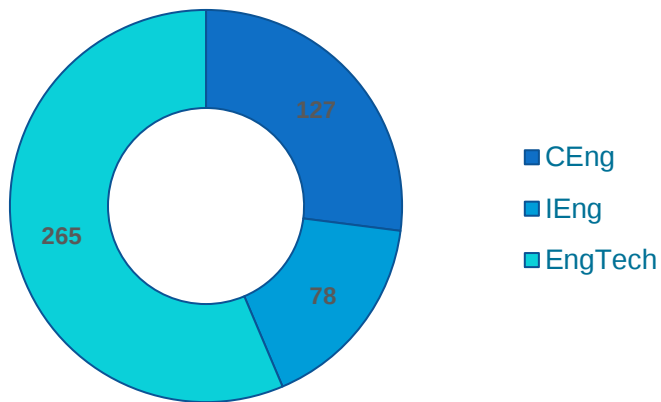


In 2019 we became a Professional Engineering Institution (PEI)



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Total Registrations - 470



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Additional Membership

- 46 additional titles
- Holding the same title with more than one Institution
- Could transfer registration
- Be recognised as a competent railway engineer professional

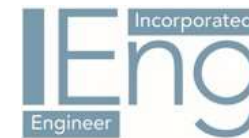
What is professional registration?

Recognition that an individual's **competence and commitment** has been assessed, and that they have attained the standard required for admission to the UK **Engineering Council** Register at the appropriate level.



The Titles

- 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 **complex** engineering problems using new or existing technologies, and through **innovation, creativity and technical analysis**.





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Academic Competence

- EngTech – typically BTEC Level 3 learning
- IEng – typically Bachelor Level 6 learning
- CEng – typically Masters Level 7 learning

Professional Competence and Commitment

- A - Knowledge and understanding
- B - Design, development and solving engineering problems
- C - Responsibility, management and leadership
- D - Communication and interpersonal skills
- E - Personal and professional commitment



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WHICH ROUTE **WILL YOU TAKE?**

ROUTES TO REGISTRATION

TITLE	QUALIFICATIONS					
	NO FORMAL QUALIFICATIONS	LEVEL 3	HNC LEVEL 4	HND / FDENG LEVEL 5	BACHELOR DEGREE LEVEL 6	MASTERS DEGREE LEVEL 7
	✓ + 3-5yrs	✓ + 2-3yrs				
	✓ via Technical Report + 5-10yrs		✓ via Experiential Learning + 5yrs	✓ via PWI Diploma and Supplementary Report + 5yrs	✓ Recognised Qualification + 3-5yrs ✓ Academic Panel Approval + 3-5yrs	
	✓ via Technical Report + 10-15yrs				✓ via Experiential Learning + 5yrs ✓ via MSc + 3-6yrs	✓ Recognised Qualification + 3-6yrs ✓ Academic Panel Approval + 3-6yrs

First Steps to Registration

- Must be a **member** of PWI
- Obtain a **Supporter** (someone in work who knows you well) and a **Sponsor** (EngC registered member) and obtain signatures
- Ensure **CPD** records are up to date and that you have a current Personal Development Plan
- For IEng and CEng: check your route to registration. Is there an **academic gap** to fill before you can progress to professional review?
- Find the **certificates** and transcripts from your formal studies – eg BTEC, HNC, BEng





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Sponsor

1

Why?

- Preserving the future of the railway by supporting the next generation of engineers
- Ensuring your employer's work force is professionally recognised
- You've been there, seen it, done it!
- Pride at helping another

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Who?

- Active registrant with UK Engineering Council
- Know the technical discipline
- Independent
- Does not need to be PWI Member
- Does not need to know the candidate well

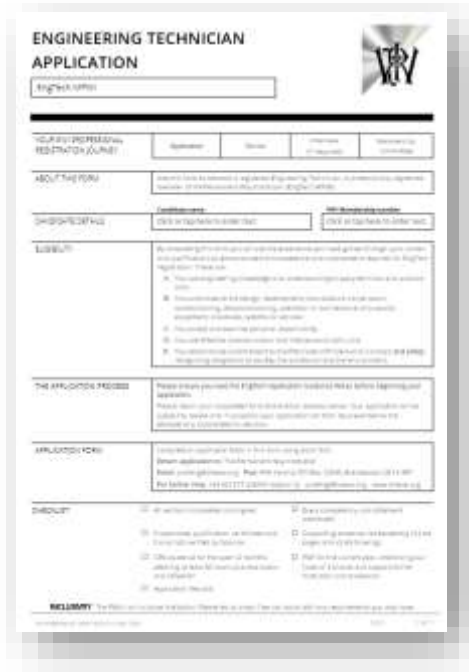
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What?

- Statement of support against A-E
- Recommend the candidate as suitable for election
- Verify academic certificates
- Declaration in professional review report (IEng / CEng only)
- Advise and guide candidate on sufficiency of answers

Professional Registration – Eng Tech

- Engage with your Sponsor
- Complete the application form and fill in the boxes with statements about how you demonstrate the A-E EngC UK competences
- Provide supporting evidence as necessary (not more than x12 A4 and x3 A3 pages)
- Provide current Personal Development Plan and one years' CPD records
- Submit by email to PWI and within six weeks you will get a response with possible outcomes of:
 - Pass and you will be registered with Engineering Council
 - Resubmit with requests for further explanation or evidence
 - Be asked to attend Professional Review Interview



The screenshot shows the 'ENGINEERING TECHNICIAN APPLICATION' form. It includes a header with the Engineering Council logo and a title box for 'EngTech (EP001)'. Below this is a table for 'QUALIFYING PROFESSIONAL REGISTRATION JOURNAL' with columns for 'Registration', 'Status', 'Comments', and 'Notes'. The form is divided into several sections: 'ABOUT THE FORM', 'PERSONAL DETAILS', 'SUBMIT', 'THE APPLICATION PROCESS', 'APPLICATION FEE', and 'CHECKLIST'. The 'SUBMIT' section contains a list of competences (A-E) that applicants must demonstrate. The 'CHECKLIST' section provides a summary of the application process and the required documents.



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Professional Registration – IEng / CEng

- Engage with your Sponsor
- Apply for an academic assessment and our Academic Panel will advise on how any gap can be filled
- Produce and submit a 5,000-word Professional Review Report to demonstrate the A-E EngC UK competences
- Provide supporting evidence as necessary (not more than x12 A4 and x3 A3 pages)
- Provide current Personal Development Plan and three years' CPD records
- Scrutineers confirm sufficient evidence to progress to interview
- Attend Professional Review Interview

The benefits to industry & society

- Society can have confidence and trust in the engineering profession
- Professional registration underpins the systems and processes that ensure the current and future safeguarding of society
- Government and wider society (both in the UK and overseas) can have confidence that registrants meet the engineering and technological needs of today - whilst also catering for the needs of future generations



The benefits to employers

- Build and maintain trust in your organisation with a professional work force
- Mitigate potential liability with proof of experienced and qualified staff. Insurance rates could be reduced
- Demonstrate employees have suitable and necessary competence for ISO 9001 requirements
- Recruit and retain the very best technically skilled and experienced staff
- Employees keep their skills up to date and relevant through membership with a PEI



The benefits to you

- Demonstrates a professional attitude and commitment to engineering and safety; valued by employers and clients
- Benefit from international recognition of competence and commitment and demonstrate evidence of your expertise and work ethic
- Have letters after your name EngTech, IEng, CEng MPWI
- Enjoy higher earning potential and career progression
- Access a framework to support your future career development with support from PWI rail infrastructure engineers



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profeng@thepwi.org
0300 373 6000 (option 2)