Routes to Registration

Brian Counter Technical Director
Update from June

• A great year with 25 registered PWI engineers and a national presentation in London

• New routes
  – Dual membership with other Institutions
  – Individual Experience Route

• High Quality CPD
  – Seminars and Meetings
  – Journals and Textbooks

• Fees are best value
Registration

• Engineering Council 36 Institutions
• Founded in 1981 and later devised 3 levels
• All heard of ICE, IMechE, IET, IRSE
• But IOM3, IGEM, CIPHE?
• Professional Qualifications
  – Academic + Experience = Competence & Commitment
  – Licensed to operate, sign off, fix, design
  – Government Rules
People and Professionalism

- **Registration** is the new railway future requirement
- **CPD** is compulsory as best practice in public industries
- **Code of Conduct** also is mandatory for engineers
- **Share Knowledge** and meet other PW engineers
- **Continuous Quality Improvements and Innovations in Materials, Methods, Processes**
Membership grades in 2016

• Code of Conduct and use of designatory letters on email, letterheads, CV and business cards (post-nominal)
• MPWI – the standard membership
• FPWI – the accolade for experienced professionals
• Professional Members
  – EngTech MPWI, IEng MPWI, CEng MPWI,
• Honorary members and fellows
Routes to Registration

Engineering Technician

• Supervisors and Technical Staff open to all qualifications and/or experience

Incorporated and Chartered P Way Engineers

1. Accredited HNC/D (pre-1999) or degree
2. Review of a package of qualifications
3. Experience and Individual Technical Report
4. Dual membership with another body
Academic Development

• UK courses with major and minor railway aspects
  – Undergraduate Courses Full and Part Time FdEng BSc BEng
  – Sheffield, Birmingham, Southampton, Derby, London
  – Postgraduates Courses Full and Part Time MSc PhD
  – Sheffield, Birmingham, Southampton, Derby, London, Leeds, Huddersfield
PWI Professional Registration
The journey involves you!

• 2014 Engineering Council Approval
• 2016 PWI confirms 7 CEng, 5 IEng, 13 Engtech Engineers

PWI is different from the other Engineering Institutions!
  – Unique safety behaviour competency
  – PWI simpler to apply and greater value for money

WHY SHOULD YOU BECOME REGISTERED?
  – Status and letters after your name
  – Position in Society and Recognition of your Competence
  – Enhanced career path, job satisfaction and promotion
  – CPD requirements by EC
  – Improve knowledge and understanding of rail infrastructure
EngTech MPWI – route for all

• ONC, BTech, HNC, HND, Fd, NVQ3 or approved apprenticeship + relevant experience in track of 2-3 years or track experience of 5-10 years
• Get a supporter (someone who knows you) and get a sponsor (a registered EC registered member)
• Fill in the form on line:
  – Career history, experience and qualifications
  – Competency Questions and CPD
• Submit and reviewers will assess your application in 4 weeks – no interview needed
IEng CEng MPWI – standard route

- Qualifications accredited by an Engineering Council Institution:
  - IEng ~ BSc/BEng; CEng ~ MEng or BSc/BEng + MSc
  - Package equivalent assessed by the Academic Panel
- Get a supporter (someone who knows you) and get a sponsor (a registered EC registered member)
- Fill in the form on line:
  - Career history, experience and qualifications
  - Competency Questions and CPD
- Submit your 3000 or 5000 word experience report aligned with ECUK competencies for IEng or CEng with evidence and CPD
- Attend a 1 ½ hour professional review in London or at a Regional Centre
No actual qualifications needed, but a mixture of some academic ones and experience can be helpful. The steps are:

1. Submit a **500 word synopsis** about how your experience fulfils the academic requirements.
2. Prepare a focussed **technical report of 2,000 -10,000 words** with the help of a mentor.
3. Attend a **Technical Review** conducted by 3 senior engineers, one who will be an academic expert.
4. Attend the **Standard Professional Review** conducted by 3 senior engineers, one who will be a PWI senior engineer.
Experience Route IEng and CEng

500 Word Synopsis
This will be a proposal around a specific technical engineering project that indicates a high level of skill and knowledge of science, maths, analysis, design and application equivalent to a degree.

Technical report of 2,000-10,000 words
The length and content will be decided by the Academic Panel to confirm that the applicant has the relevant expertise such as:
Track Maintenance, Renewal, Project Construction Work
or specialist areas of Metallurgy, Welding, Structures, Geotechnics

Permanent Way Institution
The Institution for Rail Infrastructure Engineers
Dual Membership

• Be a registered member with the EC
• Get a supporter (someone who knows you) and get a sponsor (a registered EC registered member)
• Fill in the form on line:
  – Career history, experience and qualifications
  – Emphasise your railway knowledge and experience
  – Competency Questions and CPD
• Submit and reviewers will assess your application in 4 weeks – no interview needed
## What will it cost?

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<th></th>
<th>EngTech</th>
<th>IEng</th>
<th>CEng</th>
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<tbody>
<tr>
<td>Standard Route Application Fee*</td>
<td>£60</td>
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<tr>
<td>Technical Report Option</td>
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<tr>
<td>Dual Membership</td>
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### Annual Fees once you are professionally registered through the PWI

<table>
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<tbody>
<tr>
<td>Annual EngC Fee*¹</td>
<td>£18.40</td>
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<tr>
<td>Professionally Registered Member</td>
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<tr>
<td>Professionally Registered Fellow</td>
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* Includes Engineering Council Registration Entry fee

*¹ The annual Engineering Council Registration fee will be collected at the same time as your PWI subscription and will be paid to the Engineering Council on your behalf.
What we need is more support!

• Professional development advisers
  – Current opportunities for registration now
  – How to get there in the future
  – Link to personal development

• Professional Reviewers
  – CEng and IEng reviews
  – Technical Report reviews

• Mentors for TRO
  – Understand academic → experiential learning
A real problem with support!
Thank you for listening
Any questions?