

Professional Development with the IHE Highway Engineering Academy

HIGHWAY SKILLS – ELEVATING THE PRACTICAL



theihe.org

IHE Highway Engineering Academy (HEA)

Welcome to the IHE Highway Engineering Academy (HEA) bringing together training and professional registration services under one umbrella.

What is the HEA?

The HEA offers industry-led training in highway engineering. Through one of our specialist training courses, leading to an industry-recognised Professional Certificate or Diploma, the HEA delivers the qualifications, skills and knowledge demanded by the highways industry which are in short supply today.

Our aim

The HEA aims to train a dedicated workforce with the specialist skills and expertise the highways industry needs to build the UK's road network.

The IHE Highway Engineering Academy aims to address the skills gap within the highway engineering sector, and meet its objectives, by offering:

- Recognised and academically rigorous qualifications in highway engineering disciplines.
- Highways industry knowledge, expertise and skills.
- Skills that highway engineering employers want.
- Apprenticeship opportunities and hands-on experience.
- Pathways to Professional Registration.
- Knowledge sharing with respected industry experts.
- Professional Certificates and Diplomas in highway engineering subjects.
- Registers for competent highway engineers.

Bringing together training and professional registration services under one umbrella



What can the HEA offer individuals?

Continuing Professional Development

The HEA offers a range of CPD opportunities from one day courses with Certificates of Attendance through to routes to Professional Registration. You choose what, where and when you undertake these and we provide you with the opportunity to register your CPD and use this to further your career.

One day courses

We offer a range of one-day courses to help you keep up to date with developments in the highways sector. You will receive a Certificate of Attendance with a merit of six hours CPD.

Professional Certificates and Diplomas

We offer a range of courses that can be taken at two levels – Certificate and Diploma. This means that you can undertake these courses at a level to suit your own personal circumstances, whatever your academic background.

Courses are held throughout the United Kingdom and normally require attendance over 4–5 days. On completion of each course you will receive a Certificate of Attendance (meriting 24/30 hours CPD). If you wish to go on to gain the Professional Certificate or Diploma you will then need to submit a portfolio of evidence to demonstrate your competence at either Certificate or Diploma level. Depending on your chosen level you may also need to present your report at interview.

Workshops

If you wish to apply for Professional Registration we offer workshops to help you prepare your application. These take place over two days (one online with individual advice) and at the end of the second day you will be in a position to submit your application.

Find out more information on all of our courses at www.theihe.org/academy.



What can the HEA offer employers?

In-house training – let the IHE experts come to you!

All of our training courses and Professional Certificates and Diplomas can be offered in-house at your company premises or any other convenient location.

Why in-house training?

By conducting training in-house, you have the ability to train multiple members of staff, at the same time, in an environment in which they feel comfortable. In-house delivery means you can save time away from the workplace and money spent on travel and accommodation.

Continuing Professional Development

The IHE is committed to supporting organisations with the Continuing Professional Development of their staff.

Our expert trainers will ensure everyone gets the most out of their training, and we can tailor the content to your specific needs.

Availability and prices

Once you have identified which courses you require or, if you wish to discuss your individual requirements with one of our expert trainers, email or call us. We can then provide you with a quote and make arrangements for the dates you require.

For further information contact our events team at events@theihe.org



Where to start?

The First Step

You need to ascertain where your starting point is by identifying the following:

- Existing qualifications
- Current job
- Previous work experience

Destination

Where do you want to go? How will you get there?

The following will need to be considered:

- Academic – will your existing qualifications take you directly to your destination?
- Vocational – do you have vocational qualifications and/or experience that can be used?
- Experience – have you worked in the industry for some time but lack formal qualifications?

Gap analysis

Identify what is missing from your CV. Examples:

- Some academic qualifications but not enough or the right type?
- A lot of work experience but lack qualifications?
- Senior management position but not professionally registered?

Career Assessment

If you need help, the IHE can offer you an Individual Career Assessment. This is a review of your current CV, knowledge and experience by a specialist in your field of work and guidance and advice on the best way to proceed. If you would like a Career Assessment please complete our Career Assessment Form at <https://www.theihe.org/professional-registration/unsure-of-your-route/>.

Potential barriers

There are many things which can prevent you from reaching your destination and some of them are listed here:

- Time
- Effort
- Cost
- Expertise
- Lack of Support
- Confidence

The HEA can help to remove some of these barriers by providing a single point of access, which allows you to use more than one vehicle.

What does the HEA offer?

1. Specialist One Day Courses

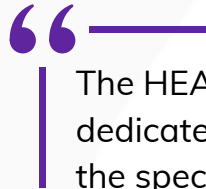
Highway Law – Principles and Practice
Asphalt for Highways and Other Paved
Areas

2. Professional Certificates and Diplomas

Active Travel - Planning & Design
Road Safety Engineering
Temporary Traffic Management Engineering
Traffic Signal Control
Traffic Signing & Road Markings
Transport Development Management
Winter Services Training for Decision Makers

3. Workshops

Engineering Technician/ICT Technician
Workshops



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Visit our website for the most up to date
training courses - www.theihe.org/all-training



One day courses

The HEA offers specialist one day courses. These intense courses in specific fields of highway engineering are aimed at both private and public sector employees looking to rapidly upskill, or refresh their knowledge.

These popular courses provide a comprehensive review of the current requirements, law, technologies and practical issues. They are also designed to be interactive, with attendees encouraged to bring along specific problems they have encountered and would like our expert's advice and opinion on.

Sharing best practice and experience are key to making highway engineering more effective and efficient. These courses are designed to do just that and are delivered by experts in their respective fields who use the benefit of their expertise to encourage learning and engagement from practitioners in the industry.

All attendees receive a CPD certificate of attendance for the day which can be accessed online at any time by the candidate.



IHE Professional Certificates & Diplomas

- **Awarded** by IHE appointed independent steering panels, which include representatives from various governing bodies, organisations and companies. They accredit skill and competency as a specialist highway practitioner and can provide evidence of competence to employers. The IHE competency statements are industry-tested and exemplify what practitioners are expected to know and deliver in the workplace.
- **Supported** by structured training courses, which have been developed to provide specific training. The training courses are aimed at aiding individuals to gain the necessary knowledge and ability to support their application for a Professional Certificate or Professional Diploma.
- **Offered** in a wide range of specialist highway areas and all highway practitioners can apply. IHE membership is not required and there is no specific need for academic qualifications or professional grade.

Applicants are required to complete assignments and/or a portfolio of evidence, which are compiled into a submission; they may also be required to attend an interview with appointed senior professionals.

- **Achieved** at two levels:

Certificate: Candidates will be able to demonstrate an awareness and knowledge of various core aspects.

or

Diploma: In addition to the certificate, candidates need to be able to demonstrate their ability to solve problems and lead.

- **Provide** a foundation for national qualifications and, subject to demonstrating the appropriate academic qualifications and competency, can also contribute to an application for Engineering Council registration.

How do I achieve a Professional Certificate or Diploma?

Course Route

A structured training programme will deliver the skills and information required for achievement of an IHE Professional Certificate or Diploma and this can also lay the foundation for Professional Registration.

Firstly, you should decide which level you wish to attain. The IHE offers qualifications at two levels through the course route – Certificate or Diploma. You will then need to attend the dedicated training course.

You will receive a Certificate of Attendance with CPD just for attending the course. If you wish to apply for the Professional Certificate or Diploma, and have successfully completed the course, you need to submit a portfolio of evidence to the IHE for assessment.

Knowledge Based Route

To achieve the Professional Certificate or Professional Diploma at your chosen level you will normally be expected to attend the training course and successfully complete all assignments/ assessments in each core competency module, together with a number of subject specific competencies, depending on which award you are looking to achieve.

However, Professional Certificates or Professional Diplomas can also be achieved by candidates who feel they have sufficient skills, training and experience and can demonstrate this by submitting an Individual Portfolio of Evidence, which documents how they have achieved the competencies required.



*Full details of competencies, assessment and awards
can be found on the IHE website at www.theihe.org/academy*



IHE Overview - The Institute of Choice for Highway Engineers



About the IHE

The Institute of Highway Engineers (IHE) is a professional Institute which puts specialist highway and traffic practitioners first. Our expertise extends to highway maintenance, traffic and transportation, road safety, highway design, traffic signal control, traffic signs and road markings, active travel, development management, winter services and highway law.

What we offer

We offer Professional Registration through the **Engineering Council** to our members in the four main national and internationally recognised status of engineering professional registration - CEng, IEng, EngTech and ICTTech.

We also offer Professional Registration routes to CITP, Advanced RITTech and RITTech through **BCS**, The Chartered Institute for IT, More information on these routes can be found on our website at www.theihe.org/professional-registration.

Engineering Technician (EngTech)

Engineering Technicians apply proven techniques and procedures to the solution of practical engineering problems. They are technically competent and are often skilled practitioners working under the guidance of others but can sometimes be managing small teams. EngTech is the most appropriate grade of Professional Registration for practitioners working on the highway on work such as: highway maintenance, Temporary Traffic Management and highway reinstatement including road markings and linings. It is also suitable for highway practitioners working in office based roles such as: CAD technicians, application and administration of Temporary Traffic Regulation Orders (TTRO's) and contract administration.

ICT Technician (ICTTech)

ICT Technicians support a range of highway engineering functions which utilise ICT solutions, and hardware and software components. ICTTech is the most appropriate grade of Professional Registration for highway engineering technicians working in traffic signals, ITS, CAD design and data modelling. Many will have a BTEC, NVQ Level 3 or SVQ Level 6 (or equivalent) qualification. Others will have gained the necessary skills, knowledge and experience through a non-academic route because of their practical experience in the highways industry.

Incorporated Engineer (IEng)

Incorporated Engineers maintain and manage applications of current and developing technology, and may undertake engineering design, development, manufacture, construction and operations. They know 'why' as well as 'how' as well as holding a responsible position that requires them to exercise independent judgement, leading and managing teams.

Chartered Engineer (CEng)

Chartered Engineers 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. They lead or implement innovative or complex schemes taking the strategic view at all times.

Professional Review

Engineers and technicians need to undergo a Professional Review in order to achieve all of the above titles. In addition, they need to be a member of a licensed Professional Engineering Institute (such as the IHE) and supply a copy of their Continuing Professional Development (CPD) to their Institute upon request at periodic intervals for assessment by a Professionally Registered assessor.

www.theihe.org/professional-registration



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