

The background and advantages to the new IHE Virtual Highways Engineering Academy (NHEA)

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Chief Executive IHE

The NHEA objectives



- To create and signpost opportunities for new entrants in the sector by giving clear unambiguous advice on relevant training and continuing professional development (CPD).
- To encourage new entrants into the highway engineering sector particularly from school leavers, graduates, allied trades, complementary professions and groups currently under represented including women.
- To support existing highway professionals in career development via training and CPD with direct relevance to professional registration

NHEA objectives continued...



- To commission and create new educational and training courses specifically aimed at highway engineers
- To accredit current training courses in respect of their relevance to highway engineering and in meeting some of the objectives for professional registration
- To raise the profile of highway engineers and get their profession recognised as a profession in its own right and as one with equal status to complementary and contiguous professions such as civil engineering, transport planning, architecture etc.

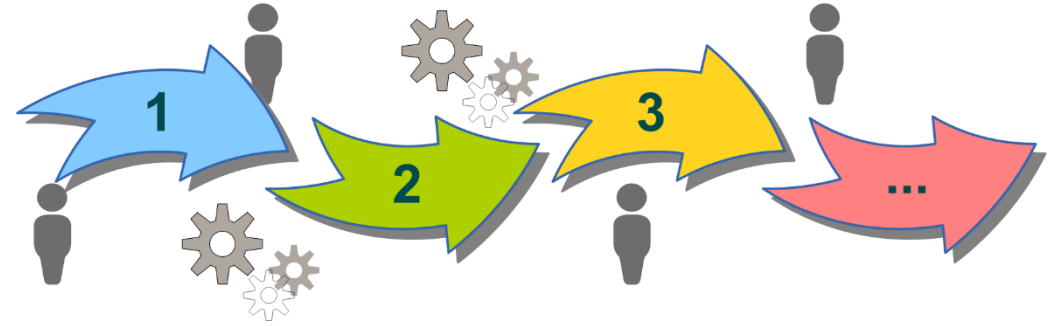
What is the National Highways Engineering Academy?

- Virtual environment
- Career assessment tool
- A record of CPD
- Provider of learning opportunities
- Routes to professional registration

NQF Level	ACADEMIC		CAREER PATH			IHE GRADE
8	Doctorate PhD				Expert HE	FELLOW
7	Master's Degree MA, MSc, MPhil		CEng			
6	University Degree BA, BSc		IEng		Specialist HE	
5	Foundation Degree	HND	Higher Apprenticeship	Eng Tech		MEMBER
4		HNC				
3	A-Level	A2 AS	L3 Extended Diploma (National Diploma)	L3 Diploma (National Certificate)	Advanced Apprenticeship	Competent HE
2	GCSE Grades A-C		L2 Diploma (1 st Diploma)		Intermediate Apprenticeship	STUDENT
1	GCSE Grades D-G		L1 Diploma (Foundation)		Training Apprentice	
Entry level 3	Key Stage 3		E3 Diploma (Foundation)			
	SCHOOL/6 TH FORM	FE COLLEGE	ENG COUNCIL/IHE MEMBERSHIP	APPRENTICESHIP		

**NATIONAL
HIGHWAYS
ENGINEERING
ACADEMY**

The process



- Career assessment
- Route map to destination
- Gap analysis of existing provision
- Ease journey by minimising potential difficulties

Career Assessment – to identify your starting point

- Existing qualifications
- Current job
- Previous work experience

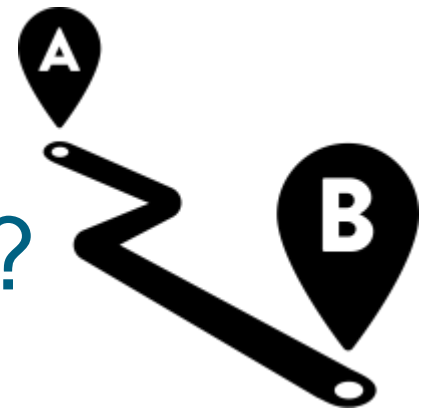


Decide destination – where do you want to go?



- Linked to professional registration eg EngTech, IEng, CEng
- Specific job/role in industry
- Increase job prospects

Choose your route – how will you get there?



- **Academic** – will your existing academic 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 a considerable time but lack formal qualifications?

Identify the gaps – what's missing from your CV?



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

Potential barriers – things that can stop you



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

NHEA – how it can help

- Removes road blocks
- Allows you to use more than one vehicle
- Provides training
- Single point of access
- Virtual community



Institute of Highway Engineers Professional Certificate Route Map

Application

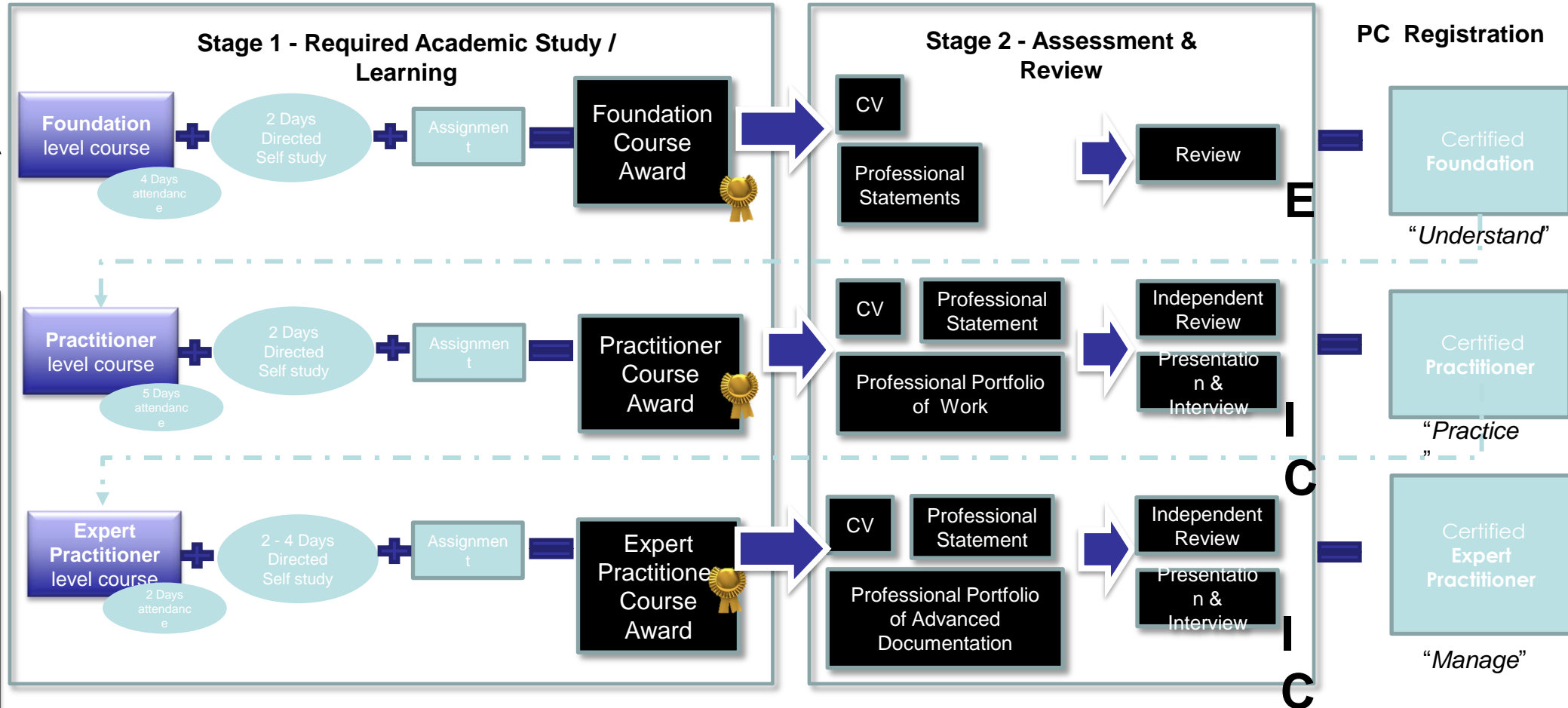
Candidate Profile

Candidates who have sufficient experience can apply directly to Stage 2

START

Subjects Covered

1. Asset Management
2. Cycling Infrastructure
3. Development Management
4. Highway Maintenance
5. Traffic Signal Control
6. Traffic Sign Design
7. Winter Services
8. Temporary Traffic management
9. Public Realm
10. Road Safety Engineering



E – Candidates may also simultaneously apply at this stage for professional registration with the Engineering Council via the IHE at EngTech level if they meet the UK Standard for Professional Engineering Competence (UK-Spec).

Ivor Cone EngTECH

IC – Candidates could also simultaneously apply / upgrade at this stage for professional registration with the Engineering Council via the IHE at the appropriate engineering level if they meet the UK Standard for Professional Engineering Competence (UK-Spec).

Ivor Cone IEng / Ivor Cone CEng

Early successes



- Apprentice/Level 2/3 route to EngTech
- Revised routes to IEng and CEng
- Improved route to IEng for experienced people
- Seeking academic accreditation for Professional Certificates
- Imbedding into Workforce planning in SMEs



Next steps

- Sourcing educational establishments, professional bodies and sector expert suppliers
- Developing a consistent framework and agreeing a formal process of progression through competency levels
- Identify and develop new and innovative solutions to support aims and objectives

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