Career Route Map
for Engineering in England

Where do I start?

School / College / Workplace
- GCSE D-G
- BTEC Level 1 / NVQ 1
- Traineeships: For 16-23 year olds qualified below Level 3

LEVEL 1

School / College / On-the-job training
- Apprenticeship (Intermediate): Engineering, IT, Construction, Built Environment, Manufacturing
- GCSE / IGCSE A*-C: Maths, Science (ideally triple science)
- BTEC Level 2 / NVQ 2: Engineering, Construction & Built Environment, Science, ICT

LEVEL 2

6th Form / College / On-the-job training
- Advanced Apprenticeship: Engineering, IT, Construction, Built Environment, Manufacturing
- A level: Maths, Physics
- IB Diploma: Higher Level Maths, Physics

LEVEL 3

Training and Education

Advanced / Higher Apprenticeship
- Available in a variety of industries including: Advanced Manufacturing, Aerospace, Automotive, Power, IT, Construction, Sustainable Technologies
- Combine workplace training with study
- Typically 3 to 4 years
- Can include vocational qualifications or a degree
- Approved by the Engineering Council

Higher National Certificate (HNC) / Diploma (HND)
- Vocational higher education qualifications, often taken whilst in employment
- Can be taken at F.E. colleges and universities
- Typically 1 to 2 years

Foundation Degree (FD)
- Usually undertaken as a part time qualification whilst in employment
- Typically 2 years
  - Further learning to Bachelor’s level required for Eng registration

University Degrees
- In general engineering, a specific field of engineering, computer science, manufacturing or technology
- Accredited by the Engineering Council
- Bachelor’s Degree (BEng)
  - 3 to 4 years
  - Can include a year working in industry / a year abroad
- Can be followed by a 1-year MSc to register as a Chartered Engineer
- Master’s Degree (MEng)
  - 4 to 5 years
  - Can include a year working in industry / a year abroad

Professional Registration

Engineering Technician (EngTech) or ICT Technician (ICTTech)

Incorporated Engineer (IEng)

Chartered Engineer (CEng)

Visit the Engineering Council’s website at www.engc.org.uk

For details of all routes into engineering, go to:
www.tomorrowsengineers.org.uk

Where you can also find:
- Case studies & job profiles
- ‘Whose Crew Are You?’ quiz
- Careers materials & activities

and lots more...