

# Entry requirements and training (design and engineering management)

There are various roles within design and engineering management.

The entry requirements needed and training will depend on the role you're considering. On this page, you'll find examples of these and information about skills and interests you'll need too.

## Entry requirements and training

To apply for a post as an estates manager, you may need to have chartered status - for example as an engineer, architect, surveyor or builder

- Find out more about entry and training as a chartered engineer
- Find out more about entry and training as a chartered architect
- Find out more about entry and training as a chartered surveyor
- Find out more about entry and training as a chartered builder

### Chartered engineer

To qualify as a chartered **mechanical engineer**, you must hold an accredited honours degree in a relevant engineering subject.

Accredited first degree courses lead to the award of BEng or BSc and last three years. Courses leading to the award of MEng last four years. Students on BEng/BSc courses may go on to complete a further year for the award of MEng. Those who lack appropriate academic qualifications may progress through relevant education and training (eg. BTEC/SQA or NVQ/SVQ) programmes to complete the Engineering Councils Part 1 and Part 2 Examinations. Exemption from Part 1 is available for those who hold a relevant qualification such as HND/HNC in an appropriate engineering discipline.

Details of engineering degrees can be found on the UCAS website [1].

To get onto a degree course, you'll need at least five GCSEs (A-C)/level 2 equivalent qualification with two/three A levels or equivalent qualifications including maths and a science subject

In addition to gaining an accredited honours degree in a relevant engineering subject, chartered mechanical engineers must complete a period of informal training and experience. Then they must: complete a further period of professional engineering experience; successfully pass a Professional Review with an interview; gain corporate membership of a chartered engineering body.

For more information about mechanical engineering, contact the Institution of Mechanical Engineers [2]

To qualify as a chartered **electrical engineer**, you would need to follow a similar route to that described above for a chartered mechanical engineer. For more information, contact The Institution of Engineering and Technology [3]

### **Chartered architect**

To train as an architect will take you a minimum of seven years, which consists of:

- a recognised degree course lasting three or four years at one of the schools of architecture.
- a year working in an architects office
- further studying for a diploma or higher degree and further work experience followed by the Royal Institute of British Architects (RIBA) Professional Practice Examination.

To get onto a degree course, you'll need a minimum of two A levels/three H grades, with at least three GCSEs grades (A-C/1-3) including English and mathematics. Some schools may ask for three A levels/ four H grades and/or specify certain subjects. Alternative qualifications may be accepted. Check with individual schools for details. Degree courses are listed on the UCAS website [1]

Qualified architects keep up-to-date by means of short courses run internally at their own firms, or by organisations such as RIBA.

For more information about becoming an architect, contact the Royal Institute of British Architects [4]

Read more about the role of architects in the NHS [5]

### **Chartered surveyor**

There are three ways for you to qualify as a chartered surveyor through the Royal Institute of Chartered Surveyors (RICS). All involve studying for a qualification accredited by the RICS. The RICS publishes a list of accredited courses. You would apply through the UCAS website [1] for a place on a course. You must also complete the RICSs Assessment of Professional Competence (APC). The three ways are:

- study full-time for an accredited degree
- start work in building surveying and study part-time for a degree
- start work and study for a Diploma in Surveying through distance learning offered by The College of Estate Management.

Candidates complete the APC by having on the job training; keeping a work diary and a record of practical training; giving a presentation; passing an interview.

There are two ways to qualify with the ASI:

- Study full-time before starting work in building surveying. This can be a subject related degree or HND/HNC
- Start work in building surveying and study part-time for a subject related degree or HND/HNC.

For more information about training to be a Chartered Surveyor, contact the Royal Institute of Chartered Surveyors [6]

Read more about the role of surveyors in the NHS [7]

### **Chartered builder**

Chartered builders follow a similar route to that described above for Chartered Surveyors

For more information about becoming a chartered builder, contact the Chartered Institute of Building [8]

- Skills, qualities and interests needed

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Depending on your background and role, you are likely to need:

- a willingness to work with others and respect their views
- good communication skills
- organisational skills
- confidence with numbers
- confidence with computers and IT
- negotiating skills
- the ability to challenge the way things are and find better alternatives
- honesty and fairness in dealing with other people
- leadership skills
- a commitment to the ideals of quality and fairness in delivering healthcare

If you're applying for a managerial role or training position either directly in the NHS or in an organisation that provides NHS services you'll be asked to show how you think the NHS values apply in your everyday work.

The NHS values form a key part of the NHS Constitution [9].

Find out more about the NHS Constitution [10]

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### Links

[1] <http://www.ucas.com>

[2] <http://www.imeche.org/>

[3] <http://www.theiet.org/>

[4] <http://www.riba.org>

[5] <https://www.healthcareers.nhs.uk/explore-roles/corporate-services/architect>

[6] <http://www.rics.org>

[7] <https://www.healthcareers.nhs.uk/explore-roles/corporate-services/surveyor>

[8] <http://www.ciob.org.uk/>

[9] [https://www.healthcareers.nhs.uk/glossary#NHS\\_Constitution](https://www.healthcareers.nhs.uk/glossary#NHS_Constitution)

[10] <https://www.healthcareers.nhs.uk/about/working-health/nhs-constitution>