

Engineering and building engineering services

If you're looking to begin a career in engineering or building engineering services we have a variety of full time courses to help you succeed.

Northumberland College's engineering department was rated 3rd best engineering department in England and Wales for success (SFA Data Services 2009/10 for 16-18 learner responsive).

We have been a major provider of quality engineering training in Northumberland for many years. In recent years hundreds of thousands of pounds have been invested in our facilities and equipment to help give you the necessary skills to meet the latest demands of the engineering industry. Our highly qualified staff can support you to develop skills needed to work in:

- Air conditioning and refrigeration
- Electrical engineering
- Fabrication and welding
- Mechanical engineering
- Motor vehicle engineering
- Plumbing

We offer Apprenticeship qualifications in a range of engineering trades including motor vehicle, electrical, mechanical, welding, air conditioning and plumbing for those working in the industry.

For more information on Apprenticeships and how to find suitable placements go to page 16.

Career opportunities...

Motor mechanic, welder, electrician, plumber, air conditioning engineer and mechanical engineer are just some of the careers available to you if you study a course in the engineering sector.



**Interested in an
Apprenticeship?**

See page 16 for
more information

Engineering and building engineering services courses

Level 1 - NVQ 1 Performing Engineering Operations (Electrical / Mechanical / Welding)

Code ENG0014P **Location** Ashington

Ideal if... you would like to develop skills and knowledge for work in the engineering industry. You will study health and safety, working effectively and efficiently in engineering and communicating technical information. You will select additional units depending on the route you wish to follow.

Entry requirements



You should have two GCSEs at grade F and have an interest in engineering.

Level 2 - NVQ 2 Performing Engineering Operations (Electrical / Mechanical / Welding)

Code ENG0016P **Location** Ashington

Ideal if... you would like to develop skills and knowledge for work in the engineering industry. You will study health and safety, working effectively and efficiently in engineering and communicating technical information. You will select additional units depending on the route you wish to follow.

Entry requirements



You should have four GCSEs at grade D including English, maths and science, or a relevant level 1 qualification.

Level 2 - Diploma in Engineering

Code ENG0004F **Location** Ashington

Ideal if... you are considering a career in mechanical / manufacturing or electrical / electronic engineering. You will learn how to use engineering manuals and workshop diagrams and learn about Computer Aided Design (CAD), basic electronics and welding.

Entry requirements



You should have four GCSEs at grade D including English, maths and science, or a relevant level 1 qualification.

Level 2 - Certificate in Engineering (Welding and Fabrication)

Code ENG0010P **Location** Ashington

Ideal if... you are interested in gaining an Apprenticeship in the welding and fabrication industry, as it is a requirement of the Apprenticeship framework. You will learn about engineering technology and fabrication and welding technology.

Entry requirements



You should have four GCSEs at grade D including English, maths and science, or a relevant level 1 qualification.

Level 2 - Apprenticeship Engineering

Code Various **Location** Ashington, Workplace

Ideal if... you are employed in a mechanical / manufacturing, electrical / electronic engineering or a welding and fabrication role and you would like to gain a qualification.

Entry requirements



You should have four GCSEs at grade D including English, maths and science, or a relevant level 1 qualification and be employed in the industry.

Level 3 - Certificate in Engineering (Welding and Fabrication)

Code ENG0009P **Location** Ashington

Ideal if... you want to gain a sound understanding of the techniques and the skills required and the underlying principles needed in today's welding and fabrication industry.

Entry requirements



You should have four GCSEs at grade C or above including English, maths and science, or a relevant level 2 qualification.

Level 3 - Subsidiary Diploma in Engineering

Code ENG0005F / ENG0006P **Location** Ashington

Ideal if... you would like to work in engineering and want to train at a higher level. You will study units including health and safety, maths, Computer Aided Design (CAD), electrical and mechanical principles and the usage of engineering materials.

Entry requirements



You should have four GCSEs at grade C or above, including English, maths and science, or a relevant level 2 qualification.

Level 3 - Diploma in Engineering

Code ENG0007P **Location** Ashington

Ideal if... you would like to work in engineering and want to train at a higher level. You will study units including business terminology, project handling techniques, Computer Aided Design (CAD), mechanical principles and the application of secondary processing.

Entry requirements



You should have four GCSEs at grade C or above, including English, maths and science, or a relevant level 2 qualification.

Level 3 - Extended Diploma in Engineering

Code ENG0008F **Location** Ashington

Ideal if... you would like to work in engineering and want to train at a higher level. You will study units including business studies, mechanical systems and associated technologies, electronic measurement and testing and welding.

Entry requirements



You should have four GCSEs at grade C or above, including English, maths and science, or a relevant level 2 qualification.

Level 3 - Advanced Apprenticeship Engineering

Code Various **Location** Ashington, Workplace

Ideal if... you are employed in a mechanical / manufacturing, electrical / electronic engineering or a welding and fabrication role and would like to develop your skills and gain a higher level qualification.

Entry requirements



You should have four GCSEs at grade C or above, including English, maths and science, or a relevant level 2 qualification and be employed in the industry.

Building engineering services

Level 1 - Pre-Apprenticeship Programme in Plumbing (Access to Building Engineering Services)

Code CON0147F **Location** Ashington

Ideal if... you would like to gain a basic qualification in plumbing. You will learn how to install all types of pipe work systems including cold water, hot water, plastic waste and drainage.

Entry requirements



You should have two GCSEs at grade F and have an interest in plumbing.

Level 2 - Diploma in Plumbing (Access to Building Engineering Services)

Code CON0141P **Location** Ashington

Ideal if... you would like to gain a qualification in plumbing. You will learn how to install all types of pipe work systems including cold water, hot water, plastic waste and drainage.

Entry requirements



You should have four GCSEs at grade D including English, maths and science, or a relevant level 1 qualification.

Level 2 - Apprenticeship Plumbing

Code CON0143P **Location** Ashington, Prudhoe

Ideal if... you are employed in the plumbing industry and would like to develop your skills and gain a recognised qualification.

Entry requirements



You should have four GCSEs at grade D including English, maths and science, or a relevant level 1 qualification and be employed in the industry.

Level 2 - Apprenticeship Air Conditioning and Refrigeration

Code CON0182P **Location** Ashington

Ideal if... you are employed in the air conditioning and refrigeration industry and would like to gain a recognised qualification.

Entry requirements



You should have four GCSEs at grade D including English and maths, or a relevant level 1 qualification and be employed in the industry.

Level 3 - Advanced Apprenticeship Plumbing

Code CON0144P **Location** Ashington, Prudhoe

Ideal if... you are employed in the plumbing industry and would like to develop your skills and gain a higher level qualification.

Entry requirements

You should have a relevant level 2 qualification and be employed in the industry.

Level 3 - Advanced Apprenticeship Air Conditioning and Refrigeration

Code CON0187P **Location** Ashington

Ideal if... you are employed in the air conditioning and refrigeration industry and would like to develop your skills and gain a higher level qualification.

Entry requirements

You should have a relevant level 2 qualification and be employed in the industry.

Motor vehicle engineering

Entry Level 3 - Diploma in Vehicle Systems and Body and Paint Maintenance

Code ENG0003F **Location** Ashington

Ideal if... you want to develop skills in repairing and servicing light motor vehicles. You will study units including vehicle systems, basic operation and maintenance requirements.

Entry requirements

You don't need any formal qualifications but should have an interest in motor engineering.

Level 1 - Diploma in Vehicle Maintenance

Code ENG0001F **Location** Ashington

Ideal if... you would like to train for a career in the motor industry. You will study units including using automotive workshop tools and equipment, how vehicle systems operate and what components they contain.

Entry requirements



You should have two GCSEs at grade F or a relevant entry level qualification.

Level 2 - Diploma in Vehicle Maintenance and Repair (Light Vehicle)

Code ENG0002F **Location** Ashington

Ideal if... you would like to train for a career in the motor industry. You will study units including mechanical and electrical systems and learn how to diagnose faulty components.

Entry requirements



You should have two GCSEs at grade D, or a relevant level 1 qualification.

Level 2 - Apprenticeship Vehicle Maintenance and Repair

Code ENG0022P **Location** Ashington

Ideal if... you are employed in the motor industry and want to achieve a recognised qualification. This course is offered in both light vehicle and HGV.

Entry requirements



You should have four GCSEs at grade D including English, maths and science, or a relevant level 1 qualification and be employed in the industry.

Level 3 - Advanced Apprenticeship Vehicle Maintenance and Repair

Code ENG0023P **Location** Ashington

Ideal if... you are employed in the motor industry and want to achieve a higher level qualification. This course is offered in both light vehicle and HGV.

Entry requirements



You should have four GCSEs at grade C or above, including English and maths, or a relevant level 2 qualification and be employed in the industry.