



## SCHOOL LINKS

*National Certificate (NC)*

**Mechanical Engineering**  
*at SCQF Level 6*

Your school has joined with North East Scotland College to offer you the opportunity to undertake a vocational qualification as part of your school studies. This information leaflet is designed to answer your questions and explain a bit about the course you will be taking.

## WHAT IS IT?

The NC in Mechanical Engineering at SCQF Level 6 is a mainly classroom based academic award that offers progression through to HNC and HND and then onto a range of degree programmes.

The qualification also forms part of the Craft Engineering Modern Apprenticeship whilst supporting access to the HNC Mechanical Engineering which forms an element of the Technician Modern Apprenticeship.

This is a two year programme that will also require you to undertake Higher Maths to ensure successful achievement.

## WHAT WILL I LEARN?

The course units will be delivered over 2 years as below:

### Year 1

- Mathematics: Technician 1
- Engineering Dynamics: an Introduction
- Statics
- Engineering Dynamics
- Strength of Materials
- Engineering: Applying IT

### Year 2

- Graphical Engineering Communication
- Pneumatics and Hydraulics
- Communications Core Skills Unit
- Mathematics: Technician 2
- CAD
- Thermofluids

Pupils will be able to join the course at the start of either year 1 or year 2 of the programme. Those joining at the start of year 2 will be able to continue for another year to undertake the units delivered in year 1.

Pupils who only undertake one year of the course will receive credit for the units completed only rather than the full award.

## HOW WILL I BE TAUGHT?

You will mainly be taught within a classroom environment. Opportunities to engage with industry partners will be made available during the course.

You will be expected to demonstrate:

- Good time keeping skills
- A willingness to learn and a commitment to self-study.
- An ability to work independently
- Planning and preparation skills
- An ability to establish and maintain good working relationships with others
- Problem solving skills.

## WHAT DO I NEED?

Candidates who have studied Graphic Communication, Engineering Science and/or Physics at National 5 level will benefit from this prior knowledge. The main skills required for entry are Mathematics at National 5 along with problem solving skills, a good attitude to self-study and the confidence to succeed.

You should note that you will be expected to be ready to start your class at the given time and adhere to the School Pupils Code of Commitment.

## HOW WILL I BE ASSESSED?

To achieve the course award you must attend regularly and successfully complete all units in the award. Assessment will be based on a range of activities, including end of unit tests and exams, written reports, preparation of drawings and some practical assessment.

## WHAT CAN I DO AFTER THIS COURSE?

Successful completion of the full National Certificate qualification could lead to:

- Advanced entry to an Engineering Modern Apprenticeship
- Direct entry to HNC studies at North East Scotland College
- When accompanied by relevant Highers (Higher Maths at A) entry to a range of locally delivered degree programmes.
- A range of employment opportunities

Progression options to HNC studies may be available to pupils who only complete one year of the course subject to successful achievement of Higher Maths at A or B pass.

## WHO DO I SPEAK TO ABOUT THIS COURSE?

If you are interested in this course and want to find out more about it you should speak to your Guidance Teacher at school.

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It is expected that pupils enrolling on this course will remain enrolled with their school for the duration of the course. Therefore this course is **not** suitable for those school pupils planning on leaving school at Christmas.



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