

Why Scientific Technologies?

The group award title reflects the scientific nature of the award and is linked to the skills required to become competent to work in science-based industries.

Learners for the NPA Scientific Technologies group award will be able to work in a broad range of companies; hence the title of the award is generic enough to reflect the diversity of the science industry in Scotland.

The group award is designed to prepare learners for an appropriate level of employment in science areas such as; biological, biotechnology, chemical, environmental, food and drink, medical, oil and gas, pharmaceutical and renewable energy industries

The NPA Scientific Technologies group award was specifically developed as part of the Foundation Apprenticeship in Scientific Technologies at SCQF level 6.

Scientific Technologies NPA

Details of Course Components

Course Outline

Scientific technologies has 4 Units taught in school:

1. Chemistry fundamentals

Describe and use the basic chemical principles associated with atomic structure, chemical formulae, acids and bases, the periodic table, and organic chemistry.

Perform practical experiments related to fundamental chemistry.

2. Mathematics for Science

The unit is intended for those learners who wish to gain the foundations of the Mathematics underpinning studies in all branches of science. The unit develops basic skills in calculation, algebra, graph reading and drawing.

3. Laboratory Safety

Demonstrate knowledge and understanding of common laboratory hazards.

Describe safety and security procedures in a specific laboratory.

Follow all safety procedures while carrying out an experiment in the laboratory.

4. Experimental Procedures: Science

Perform experimental procedures and record experimental results.

Process experimental results.

Plan, organise and complete a laboratory based project.

Along with the above units, SVQ units, will be assessed as part of your work placement.

You'll learn how to:

- Follow health and safety procedures for scientific or technical activities
- Carry out scientific or technical tests using manual equipment
- Prepare compounds and solutions for scientific or technical use

ASSESSMENT

This course is assessed by a mixture of theory and practical assessments completed in school and on work placement.



FACULTY OF SCIENCE

Biology Staff :

Mr Alan Stickle, Miss Rowan Cannell,
Miss Sue Rodwell

Chemistry Staff:

Mr Stephen McNeil, Miss Kat Barnard,
Mrs Maryann Blakeborough

Physics Staff:

Mrs Abi Gibbon, Mr Steven Dempsey

Courses in Turriff Academy

National 4 Environmental Science
National 4 Chemistry
National 4 Physics
National 5 Biology
National 5 Chemistry
National 5 Physics
Higher Biology
Higher Chemistry
Higher Physics
Scientific Technologies NPA
Advanced Higher Biology
Advanced Higher Chemistry
Advanced Higher Physics

Useful websites to help you with your choices:

www.myworldofwork.co.uk
www.skillsdevelopmentscotland.co.uk

Further advice and information on these options is available from your subject teacher, guidance teacher and careers adviser.