

Applied Science BTEC

Who is the course for?

The main purpose of the qualification is to develop the scientific principles and practical techniques, which will prepare you to progress to higher education or employment in areas related to food, human or environmental science.

You will learn to carry out experiments safely and accurately when testing products to yield results that can be used to inform the next stage in a scientific process. You will also have the opportunity to collect and analyse primary data. This will better prepare you to progress to higher education or employment in areas related to laboratory science such as Life Sciences, Biological Science and Environmental Science.

What does the course involve?

The course is designed to provide you with a broad knowledge and understanding of fundamental biological, chemical and physical principles underlying laboratory science. You will also have the opportunity to gain the transferrable skills necessary to perform laboratory techniques in the workplace, learn in work-related context and acquire the skills for independent learning and development

Modules include:

Principles and Applications of Science – learners will gain a thorough understanding of the scientific principles and practices that are essential for scientists and technicians including atoms and electronic structure, the structure and workings of cells, and waves.

Practical Scientific Procedures and Techniques – learners will gain a good grounding in the skills required to carry out practical laboratory techniques correctly and accurately

Science Investigation Skills – learners will develop the skills required to plan a scientific investigation and record results appropriately, including how to process and analyse data, draw scientific conclusions and evaluate work.

Extra unit:

Physiology of Human Body Systems – learners will study how the musculoskeletal, lymphatic and digestive body systems work

Assessment Methods

Applied Science consists of four units taught over 2 years. Units 1, 2 and 3 are mandatory, while Unit 4 is an optional unit chosen from a list of different topics. Unit 1 and 3 are externally assessed,

Progression Options

The majority of career opportunities in this sector are at degree level, and to gain employment you will mostly likely need to progress from this qualification into higher education or an apprenticeship programme. Examples of employers who offer opportunities for suitably qualified individuals include: conservation organisations; the Environment Agency; water companies; waste management companies; DEFRA; food producers; pharmaceutical companies, the NHS and local authorities.

Awarding Body

Pearson