



# BioGrad™ education

## Skills Bootcamps 2024



**SKILLS**

**FOR LIFE**

**SKILLS BOOTCAMPS**

# BioGrad™ education



## A-Level Science Practical Endorsement Training for Teachers and Technicians

### Fully Funded Courses 2024

📍 131 Mount Pleasant, Liverpool L3 5TF



Are you a new, early career or experienced Science teacher or technician who is looking to further your practical skills and knowledge of practical work assessment?

This **fully funded** course provides learners with the opportunity to improve their practical skills, to support the delivery of required practical work in the current A-Level Science specifications (AQA, OCR, Edexcel and Eduqas).

Learners will become confident in the use of required Apparatus and Techniques (ATs) in their chosen subject area and gain the knowledge and understanding of what is required for the planning, delivery and assessment of current A-level Science Practicals.

**Biology** ✓  
**Physics** ✓  
**Chemistry** ✓

### Get in Touch

☎ 0345 565 1725 (Option 4)

✉ [fundedcourses@biograd.co.uk](mailto:fundedcourses@biograd.co.uk)

🌐 [www.biograd.co.uk](http://www.biograd.co.uk)



# Biology



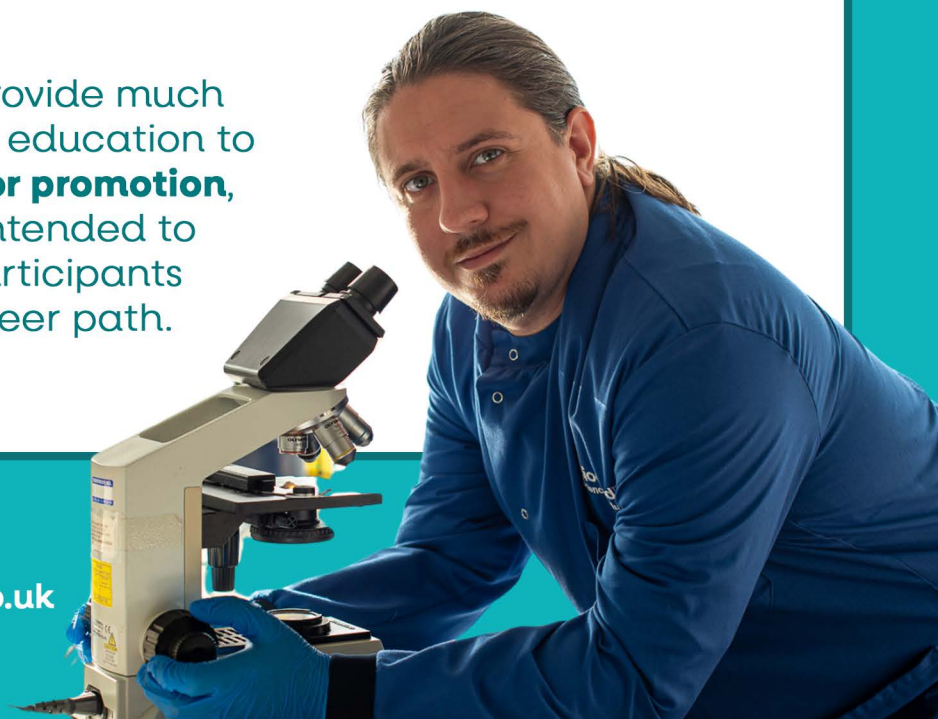
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This course provides learners with the opportunity to improve their practical skills, to support the delivery of required practical work in current A-Level Biology specifications (AQA OCR, Edexcel and Eduqas). The total number of 80 Guided Learning Hours (GLHs) is broken down into 30 GLHs of directed online learning, 30 GLHs of **intensive laboratory-based learning** and 20 GLHs of independent learning.

In the laboratory learners will complete a significant number of practical experiments, linked to the A-Level Biology curriculum, which allow learners to understand the scientific process and develop techniques eg using qualitative reagents to identify biological molecules, separating biological compounds using various methods and using organisms safely and ethically for experimental investigations. Prior to the **intensive laboratory work** focus, learners will have a developed understanding of how to work safely in a laboratory setting, including how to complete risk assessments and how COSHH works.

They will discuss ways to track individual students' progress against each of the Common Practical Assessment Criteria (CPAC) success criteria and will also be able to consider different ways of providing feedback to their students, to maximise their progress over time. Assessment and feedback during the course will be ongoing and elements will also be recognised by the AQA Unit award scheme.

The course will also provide much support around careers education to help **secure a first job or promotion**, the content is fully intended to upskill and move participants forward in their career path.



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# Chemistry



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This course provides learners with the opportunity to improve their practical skills, to support the delivery of required practical work in current A-Level Chemistry specifications (AQA OCR, Edexcel and Eduqas). The total number of 80 Guided Learning Hours (GLHs) is broken down into 30 GLHs of directed online learning, 30 GLHs of **intensive laboratory-based learning** and 20 GLHs of independent learning.

In the laboratory learners will complete a significant number of practical experiments, linked to the A-Level Chemistry curriculum, which allow learners to understand the scientific process and develop techniques including using qualitative tests for ions and organic functional groups, performing titrations, distillation and using filtration equipment, using melting point apparatus and setting up electrochemical cells. Prior to the **intensive laboratory work** focus, learners will have a developed understanding of how to work safely in a laboratory setting, including how to complete risk assessments and how COSHH works.

They will discuss ways to track individual students' progress against each of the Common Practical Assessment Criteria (CPAC) success criteria and will also be able to consider different ways of providing feedback to their students, to maximise their progress over time. Assessment and feedback during the course will be ongoing and elements will also be recognised by the AQA Unit award scheme.

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# Physics



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This course provides learners with the opportunity to improve their practical skills, to support the delivery of required practical work in current A-Level Chemistry specifications (AQA OCR, Edexcel and Eduqas). The total number of 80 Guided Learning Hours (GLHs) is broken down into 30 GLHs of directed online learning, 30 GLHs of **intensive laboratory-based learning** and 20 GLHs of independent learning.

In the laboratory learners will complete a significant number of practical experiments, linked to the A-Level Physics curriculum, which allow learners to understand the scientific process and develop techniques including using appropriate analogue apparatus to record a range of measurements (to include length/distance, temperature, pressure, force, angles, volume) and to interpolate between scale markings and using appropriate digital instruments, including electrical multimeters, to obtain a range of measurements (to include time, current, voltage, resistance, mass). Prior to the **intensive laboratory work** focus, learners will have a developed understanding of how to work safely in a laboratory setting, including how to complete risk assessments and how COSHH works.

They will discuss ways to track individual students' progress against each of the Common Practical Assessment Criteria (CPAC) success criteria and will also be able to consider different ways of providing feedback to their students, to maximise their progress over time. Assessment and feedback during the course will be ongoing and elements will also be recognised by the AQA Unit award scheme.

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# ONLINE Start dates 30 hours



**Cohort 1** - Tuesday 20th February  
**Cohort 2** - Wednesday 21st February  
**Cohort 3** - Thursday 22nd February

9-12pm and 1-4pm  
5 consecutive weeks

## Consecutive 5-day INTENSIVE PRACTICAL

### Start dates

Monday 6th May  
Monday 20th May  
Monday 3rd June

(all three sciences of Biology, Chemistry and Physics)

## Location

**Liverpool Science Park**  
131 Mount Pleasant,  
Liverpool L3 5TF



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