

LABORATORY TECHNICIAN

Level 3 Duration **24 months**



INTRODUCTION

This apprenticeship builds skills in experiments, data analysis, and lab maintenance, preparing learners for research roles. Graduates earn a Level 3 BTEC or, from 2025, an Alternative Academic Qualification in Applied Science.



JOB ROLES

- Quality Control Laboratory Technician
- Analytical Laboratory Technician
- Materials Testing Technician
- Research & Development Technician
- Food & Drink Technologist
- Product Development Technician



DELIVERY MODEL

- Assessment in the workplace
- 1 day per week of knowledge delivery - online (for cohorts of 6 or more, this can be delivered in the workplace)
- 3 day practical workshop at National STEM Centre in York
- 3 day exam residential at Cogent Skills Head Office in Warrington (if qualification is chosen)



KNOWLEDGE MODULES

- | | | | |
|---|---|---|---|
| <ul style="list-style-type: none">• Principles and Applications of Science• Practical Scientific Procedures and Techniques/Science Practical Skills• Quality in Science & Technology industries | Additional Modules* <ul style="list-style-type: none">• Microbiology• Process Chemistry• Principles of Process Control & fault diagnosis | <ul style="list-style-type: none">• Water for Process Industries• Mixing & blending of solids and fluids• Information and Digital Technology & Process Diagrams | <ul style="list-style-type: none">• Principles of separation of insoluble solids from liquids |
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A LABORATORY TECHNICIAN WILL;

- Prepare for laboratory tasks using the appropriate scientific techniques, procedures and methods
- Perform laboratory tasks following specified methodologies, such as Standard Operating Procedures
- Produce reliable, accurate data and keep accurate records of laboratory work undertaken and results
- Analyse, interpret and evaluate data and identify results requiring further investigation seeking advice of senior colleagues as appropriate
- Communicate scientific information appropriately, including the use of Laboratory Information Management systems, either digital or paper based
- Work safely in a laboratory, maintaining excellent housekeeping whilst following appropriate safety, environment and risk management systems

* Additional modules will be chargeable



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CALL US ON
01925 515 200

EMAIL US
apprenticeships@cogentskills.com