Science and Engineering Academy at S&A

EDUCATION DONE DIFFERENTLY

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Introduction to **Science Academy**

The S&A Science Academy provides employers with a direct pipeline of skilled talent, tailored to meet the demands of the science and manufacturing industries. Our programmes range from entry-level to higher level post degree programmes which are designed to equip apprentices with practical, job-ready skills from day one, ensuring they grow with your organisation.

Delivered both on-site and remotely, our apprentices train in real-world manufacturing and laboratory environments, using industry-standard equipment and technologies. This immersive approach ensures they develop the technical competencies, problem-solving abilities, and professional behaviours required for high-performance production and quality assurance. Employers benefit from work-ready apprentices who understand workplace expectations and can contribute effectively to business operations.

What sets our programmes apart is that they are delivered by industry experts with extensive sector experience. This ensures that training is highly relevant, up to date, and aligned with employer needs. Our expert-led approach means apprentices gain practical insights into best practices, compliance, and innovations in scientific and manufacturing processes, making them well-prepared to integrate seamlessly into your workforce.

By partnering with The S&A Science Academy, employers can develop a future-proof workforce, bridging skills gaps while investing in motivated, well-trained professionals who are ready to drive efficiency, innovation, and productivity within their organisations.



About The **S&A Academy**

As the sister company to S&A Transform, one of the UK's top challenger consultancies, The S&A Academy is an independent, Ofsted-regulated "good" provider of professional, government and levy funded apprenticeships, commercial training, and corporate learning and development (L&D) programmes.

We specialise in developing junior, mid-level, and executive talent through apprenticeship levy-funded programmes delivered from our three leading academies.

Our Technology, Data & AI Academy trains your employees to develop their careers in software development, software testing, ICT, cybersecurity and data & AI.

The Leadership & Management Academy develops new and experienced managers in roles such as team leader, department manager, business analyst, business administrator and senior leader.

Our leading Science & Laboratory Academy develops capability in your employees in areas such as laboratory science, technician scientist, polymers, science manufacturing, materials and food testing, and research & development (R&D).

Our professional careers programmes run from L3 to L7 (masters degree equivalent) and can often be modified to suit employers needs with additional modules and internationally recognised qualifications and certifications.

We have an unrivalled reputation for...

Fully Funded Bespoke Curriculums

Modern, Industry Experienced Instructors

Multiple Extra Learning Modules to Suit Employer Needs

Why choose **S&A?**

Industry Relevant Programmes

Highly flexible learning options

Bespoke training with bolt-on modules

100% Positive Employer Feedback

Real-world experience integration

Bespoke Personal Development

Our **Programmes**

Science and Engineering Academy

Level 3 Polymer Processing & Manufacturing:
Covers the principles and practices of polymer production and processing.
Level 3 Laboratory Technician:
Trains apprentices in laboratory techniques and safety protocols.
Level 5 Technician Scientist:
Advances scientific knowledge and research skills for technical roles.
Level 3 Water Treatment Technician:
Equips apprentices with the skills to develop, install, and maintain water treatment programmes, ensuring safe and clean water management.
Level 3 Mechatronics Maintenance Technician:
Trains individuals to install, test, and maintain complex automated equipment.
Level 3 Senior Technician:
Develops essential leadership and management skills for those overseeing teams, projects, and operations within a lab environment.
Level 5 Senior Laboratory Manager:
Prepares individuals for managerial roles overseeing operations in a lab environment.

Business and Leadership Academy

Level 3 Business Administrator:
Develops administrative skills essential for business operations.
Level 3 Team Leader:
Focuses on leadership and team management skills.
Level 3 Multi-Channel Marketer:
Focuses on developing competencies in digital marketing strategies across various platforms.
Level 4 Marketing Executive:
A Marketing Executive delivers targeted campaigns to engage audiences and support business growth.
Level 4 Associate Project Manager:
Equips learners to plan, monitor, and adapt projects for successful delivery across various sectors.
Level 4 Business Analyst:
Equips learners with the skills to analyse data, improve processes, and support smarter business decisions.
Level 5 Operations / Departmental Manager:
Prepares individuals for managerial roles overseeing operations.
Level 7 Senior Leader:
Equips senior professionals with strategic leadership capabilities.

Technology, Data and AI Academy

Software Developer Level 4 Enhanced Apprenticeship:
A cutting-edge programme with bolt-on modules for specialised skills in the latest frameworks and technologies.
Software Tester Level 4:
Develop hands-on testing skills to ensure software quality and reliability.
Information Communications Technician Level 3:
Train for ICT support and network roles, focusing on technical and communication system maintenance.
Level 3 and 4 Cyber Security Technician/Technologist
Equips learners with core skills to protect digital infrastructure through threat analysis, risk management, and security practices.
Level 3 DevOps Engineer
Equips learners with practical skills in automation, deployment, and monitoring for continuous integration and delivery.
Level 3 Software Development Technician
Equips learners with the foundational coding, testing, and software support skills needed to assist in building and maintaining digital applications.
Level 4 Data Analyst Apprenticeship:
Build analytical skills with live projects focused on data analysis and insights.
Level 3 Data Fluency Apprenticeship:
Gain foundational data skills, including sourcing, formatting, and presenting data.
Level 5 Data Engineer Apprenticeship:
Specialise in designing, building, and maintaining complex data systems.
Level 7 AI Data Specialist Apprenticeship:
Develop AI solutions, focusing on machine learning and natural language processing.

Range of **Services**



Commercial

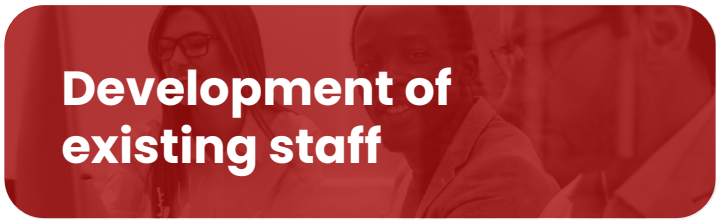
From Introductory Courses to Professional Apprenticeships and Masters Degree Level Training

Once associated more with manual trades than professional careers, nowadays an increasing number of thriving leaders in technology, science, and business have started their careers through apprenticeships.

Just a Few Benefits of a Professional Apprenticeship:

+ Bonus Masterclasses
+ Earn a Salary
+ Start with a Job
+ Degree Equivalent

Find out more via our website >



Development of existing staff

Enrol an Existing Employee onto an S&A Academy Professional Apprenticeship

Did you know you can train existing employees to support their CPD and career development through a UK Government funded apprenticeship programme? These programmes can be for recent or junior hires or even experienced staff, including those at executive and board level. If you're an apprenticeship levy payer, all professional training may be fully funded when delivered by an accredited training provider like S&A Academy. If you're not a levy tax-paying employer, we can still recover 95%-100% of the training costs.

Click here to get in touch >



Apprenticeships

A constant supply of newly skilled, engaged, and motivated employees ready to seamlessly slot into your working environment.

Imagine having a steady stream of skilled, engaged, and motivated employees ready to seamlessly integrate into your organisation. These individuals will not only bring the academic and technical expertise required but also possess the practical knowledge and industry-specific experience that can deliver immediate value to your business.

What if we told you these new employees would understand your company culture, be statistically more likely to stay longer, and likely cost less than offshore resources or university graduates?
And what if all of this could be provided by us at little or no additional cost to you?

Find out more via our website >



Resourcing of new apprentices

We offer a free, expert recruitment service, for all employers placing new hires onto our apprenticeship programmes.

Depending on your needs, this is either delivered via our S&A Academy in-house resourcing team or via our sister company, S&A Resourcing Solutions, a leading recruitment firm within the Business, Technology & Science sectors.

You may wish to completely outsource the recruitment to us, or we can work alongside your in-house hr or recruitment teams, or even work hand in hand with any 3rd party recruitment company you currently utilise.

We run regular selection camps and screening sessions for new apprentices we feel are suitable for all the professional careers we build.

Find out more via our website >

Level 3 Laboratory Technician
Programme Overview

The Level 3 Laboratory Technician Apprenticeship at S&A Academy equips apprentices with the technical skills and professional behaviours needed for laboratory roles in industries like science, pharmaceuticals, healthcare, and manufacturing.

Standard Code: ST0248
Funding Band: £21,000

The Pathways

+ Materials technician
+ QA technician
+ Food & Feed Manufacturing
+ Education
+ Environmental Analytical

Delivery Model

+ Months 0-12
1 day per week virtual delivery
Practical masterclasses with S&A equipment

+ Months 12-15
Subject specific masterclasses in Life Science,
Environment & Sustainability
relevant the learners specialism

+ End Point Assessment
Apprentices undertake an assessment to
determine achieved required capabilities

The Progression Routes

+ Level 5 Technician Scientist Apprenticeship
+ RSci Technician Qualification

About the programme

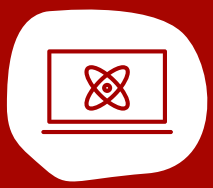
The Laboratory Technician Level 3 Apprenticeship at The S&A Academy equips apprentices with the technical skills and scientific knowledge needed to work in laboratory environments across industries such as engineering, manufacturing, biotechnology, education and research.
Apprentices will learn to prepare and conduct competent laboratory techniques analyse data, maintain lab equipment, and ensure compliance with health and safety regulations. Delivered through a blend of practical workplace experience and structured learning, this apprenticeship develops problem-solving, communication, and analytical skills.

With expert guidance and hands-on training, apprentices will gain the qualifications and experience needed for a successful career in laboratory science. Learners will develop a strong understanding of scientific techniques, quality control, and industry regulations, preparing them for roles such as Laboratory Technician, Quality Analyst, or Research Assistant. The programme supports career progression into higher education or further specialisation in scientific fields.

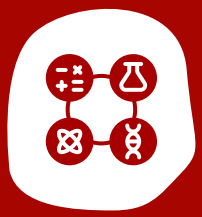
What your apprentice will learn



Hands-on scientific training :
Conduct experiments, analyse data, and maintain lab equipment while ensuring compliance with industry standards.



Practical & theoretical learning:
Develop expertise in scientific principles, laboratory techniques, quality assurance, and regulatory guidelines.



Transferable Skills for Career Development:
Apprentices will develop problem-solving, communication, and teamwork skills, essential for success in laboratory-based roles across various industries.

Level 3 Laboratory Technician

18 months + 3 months EPA period

1 **Module 1**
Health and Safety

2 **Module 2**
Core Science: Applied Biology

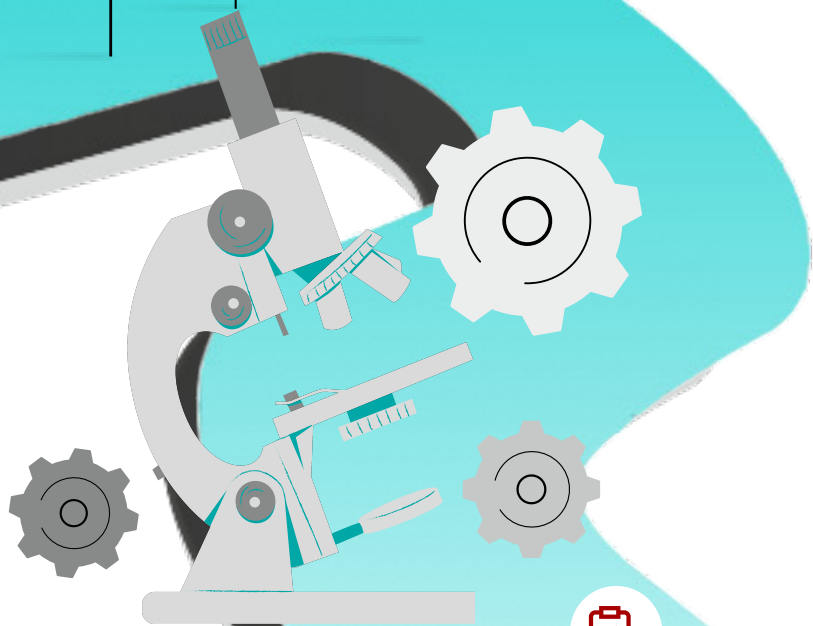
3 **Module 3**
Communication and Reporting

4 **Module 4**
Data Reporting and Traceability

9 **Module 9**
Core Science: Applied Physics

10 **Module 10**
Problem Solving

11 **Module 11**
Continuous Improvement Techniques



8 **Module 8**
Data Analysis and Statistics

7 **Module 7**
Calibration and Maintenance of Equipment

6 **Module 6**
Quality Regulations: ISO, BS-EN

5 **Module 6**
Core Science: Applied Chemistry

End Point Assessment
18-21 months

+ Observation with questioning
+ Interview
+ Knowledge test

Programme Completion

+ **Laboratory assistant**
+ **Manufacturing Technician**
+ **Quality Control Technican**

Level 3 Polymer Processing Technician **Programme Overview**

Our Polymer Processing Technician Training Programme enables individuals to become fully competent in not only the scientific aspects of polymer materials but also the hands on technical skills required to process materials effectively.

Standard Code: ST1328
Funding Band: £25,000

The Pathways

+ Injection Moulding
+ Extrusion
+ Rotational Moulding
+ Blown Film Moulding

Delivery Model

+ Months 0-24

Day release 1 day a week
4 days in the workplace

+ 1-1 Coaching

In-person coaching in your workplace developing skills ensuring up to date techniques

+ 3rd Party End Point Assessment

Observation
Interview
Multiple Choice Test

The Progression Routes

+ RSci Tech and The Institute of Materials
+ Minerals and Mining for Engineering Technician (EngTech)

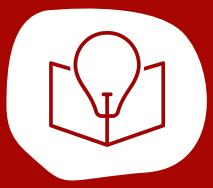
About the programme

Our polymer processing technicians will be trained to produce polymer products to a specification. Working in a production facility - often on a large scale, using a range of machinery, control systems and engineering equipment the will understand the different ranges of continuous or in batch processes.

They will be able to set up or configure equipment and tooling and prepare materials for processing. They will run and monitor the process, adjusting parameters. They use unique technologies and processes such as extrusion, blow moulding, thermoforming, rotational moulding, injection moulding, internal mixing, and calendering. They will undertake quality control, complete work records, and participate in improvement. They may also complete preventative maintenance and prepare polymer process equipment for maintenance and overhaul.

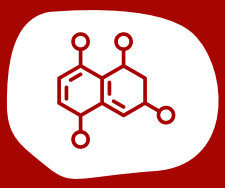
We have industry expert coaches who deliver training on site in person ensuring development of core technical skills every 8 weeks throughout the programme to give a truly bespoke experience for each apprentice.

What your apprentice will learn



Key theoretical polymer applications:

Understand the fundamental principles of polymer science and how they are applied across various industries.



Polymer properties and applications :

Learn about different polymer types, their characteristics, and how they are used in real-world scenarios.



Expertise in practical work & troubleshooting during application processes :

Develop hands-on skills in working with polymers, identifying issues, and optimising processes for better performance.

Level 3 Polymer Processing Technician

24 months + 3 months EPA period

Step 1.
Recruitment 2-4 weeks
(new apprentices only)

Step 2.
Initial Advice and Guidance for existing staff or new recruits up to **2 weeks**

Step 3.
Enrolment & onboarding up to **2 weeks**

Programme Start

Module 1
Polymer Applications Introduction

Module 2
Polymer Scientific Aspects

Module 3
Polymer Materials

Module 4
Polymer Processes

Module 5
Materials and Performance Testing

Module 6
Quality Assurance and Industry Regulation

Module 7
Product and process design project

Module 8
Problem Solving & Continuous Improvement in Polymer Manufacturing

Module 9
EPA Preparation & Indivdual Projects

End Point Assessment
24-30 months
+ Observation with questioning
+ Interview
+ Multiple choice test

Programme Completion

+ **Process Technician**
+ **Engineering Technician**
+ **Manufacturing Technician**

Level 3 Senior Technician **Programme Overview**

Equips technicians with essential skills in safe storage, usage, transportation, and disposal of chemicals, ensuring compliance with industry regulations and best practices.

Standard Code: ST0384
Funding Band: £5,000

Delivery Model

+ Months 0-18 (Including 3 months EPA Period)

Fortnightly blended sessions (virtual & face-to-face)

Monthly 1:1 coaching with experienced Senior Instructor

+ 3rd Party End Point Assessment

Apprentices undertake 2 assessments:

Presentation with questions

Professional discussion & portfolio of evidence

The Progression Routes

+ Level 4 Associate Project Manager Apprenticeship

+ Level 3 or 5 Team Leader/Supervisor Apprenticeship

+ Level 5 Operations/Departmental Manager Apprenticeship

+ CIPD Level 3 Certificate/Diploma in People Practice

+ AAT Foundation Certificate in Accounting

About the programme

The Laboratory Manager Level 3 Apprenticeship is designed for aspiring or newly appointed managers looking to develop essential leadership and management skills.
A laboratory manager plays a crucial role in organisations where first-line management and team support are needed. They provide leadership with operational and project responsibilities, managing individuals, teams, or elements of a project. Their role involves offering direction, instructions, and guidance to achieve set goals, ensuring the smooth functioning of all departments while maintaining compliance with legislation and organisational procedures.

Through this apprenticeship, participants gain hands-on experience in leading teams, making informed decisions, and driving operational success. The programme focuses on key areas such as team development, performance management, communication, problem-solving, and resource planning. With a combination of workplace training and structured learning, apprentices build confidence in managing people, projects, and business objectives.

What your apprentice will learn



People management techniques:

How to effectively lead and manage teams, ensuring performance is optimised through clear communication and guidance.



Leadership development:

How to become an inspirational leader by building trust, leading by example, and motivating teams to achieve success.



Conflict resolution and problem-solving:

How to understand employee concerns and resolve issues effectively, creating a harmonious and productive work environment.

Level 3 Senior Technician

13 months- 3 months EPA period

1 **Module 1**
Personal development

2 **Module 2**
Leadership communication skills

3 **Module 3**
The organisation and its roles

4 **Module 4**
Change management

5 **Module 5**
Building relationships

6 **Module 6**
Coaching and mentoring

7 **Module 7**
Managing information

8 **Module 8**
Problem solving & decision making

9 **Module 9**
Team objectives & performance

10 **Module 10**
Resource planning

11 **Module 11**
Finance

12 **Module 12**
Project management

13 **Module 13**
Presentation skills



End Point Assessment
3 Months

Portfolio-Based Interview +
Project or Improvement Presentation +
Knowledge Test (Multiple-Choice)

Programme Completion

+ **Process Technician**
+ **Engineering Technician**
+ **Manufacturing Technician**

Level 3 Water Treatment Technician
Programme Overview

The Level 3 Water Treatment Technician Apprenticeship at The S&A Academy provides apprentices with the technical knowledge and practical skills needed to ensure the safe and efficient treatment of water in a variety of industries, including utilities, environmental services, manufacturing, and healthcare.

Standard Code: ST0453
Funding Band: £21,000

The Pathways

+ Heating and cooling
+ Process/manufacturing heating and cooling
+ Energy transport
+ Power generation
+ Industrial washing/cleaning processes
+ Food production
+ Healthcare

Delivery Model

+ Months 0-18
Day release 1/2 day a week
4 days in the workplace

+ 1-1 Coaching
In-person coaching in your workplace developing skills ensuring up to date techniques

+ 3rd Party End Point Assessment
Apprentices undertake an assessment to determine achieved required capabilities

The Progression Routes

+ Level 4 Water Operations Manager Apprenticeship

About the programme

The Water Treatment Technician Apprenticeship trains professionals to develop, install, and maintain water treatment programs in industrial, commercial, and institutional buildings. Their work ensures safe water conditions, preventing health risks such as Legionnaires' disease, corrosion, scaling, and microbiological contamination.

Apprentices will gain expertise in water chemistry, filtration, disinfection, system optimisation, and regulatory compliance. They will learn to monitor water quality, conduct laboratory testing, and diagnose faults in various water systems, including cooling towers, steam boilers, and process heating/cooling systems. Working for specialist service providers, technicians operate independently and may supervise Water Treatment Operatives. They apply health and safety regulations, technical knowledge, and problem-solving skills to ensure efficient and compliant water treatment operations.

Training combines workshops, online learning, and onsite training with industry experts. Apprentices develop problem-solving, teamwork, and communication skills. Assessment includes practical observations, a portfolio, and an end-point assessment, leading to a nationally recognised qualification. Graduates can pursue roles as water treatment technicians, process operators, or water quality analysts, with opportunities for further study or career growth.

What your apprentice will learn

Water Treatment & System Management:

Install, maintain, and optimise water treatment programmes to prevent contamination and system damage.

Safety & Compliance :

Follow health regulations, conduct risk assessments, and ensure safe chemical handling.

Technical Problem Solving:

Analyse system performance, recommend improvements, and communicate findings effectively.

Level 3 Water Treatment Technician

18 months

1 **Module 1**
Health and Safety in Water Treatment

2 **Module 2**
Core Science: Water Chemistry

3 **Module 3**
Preparation for Testing and Carrying out Procedures

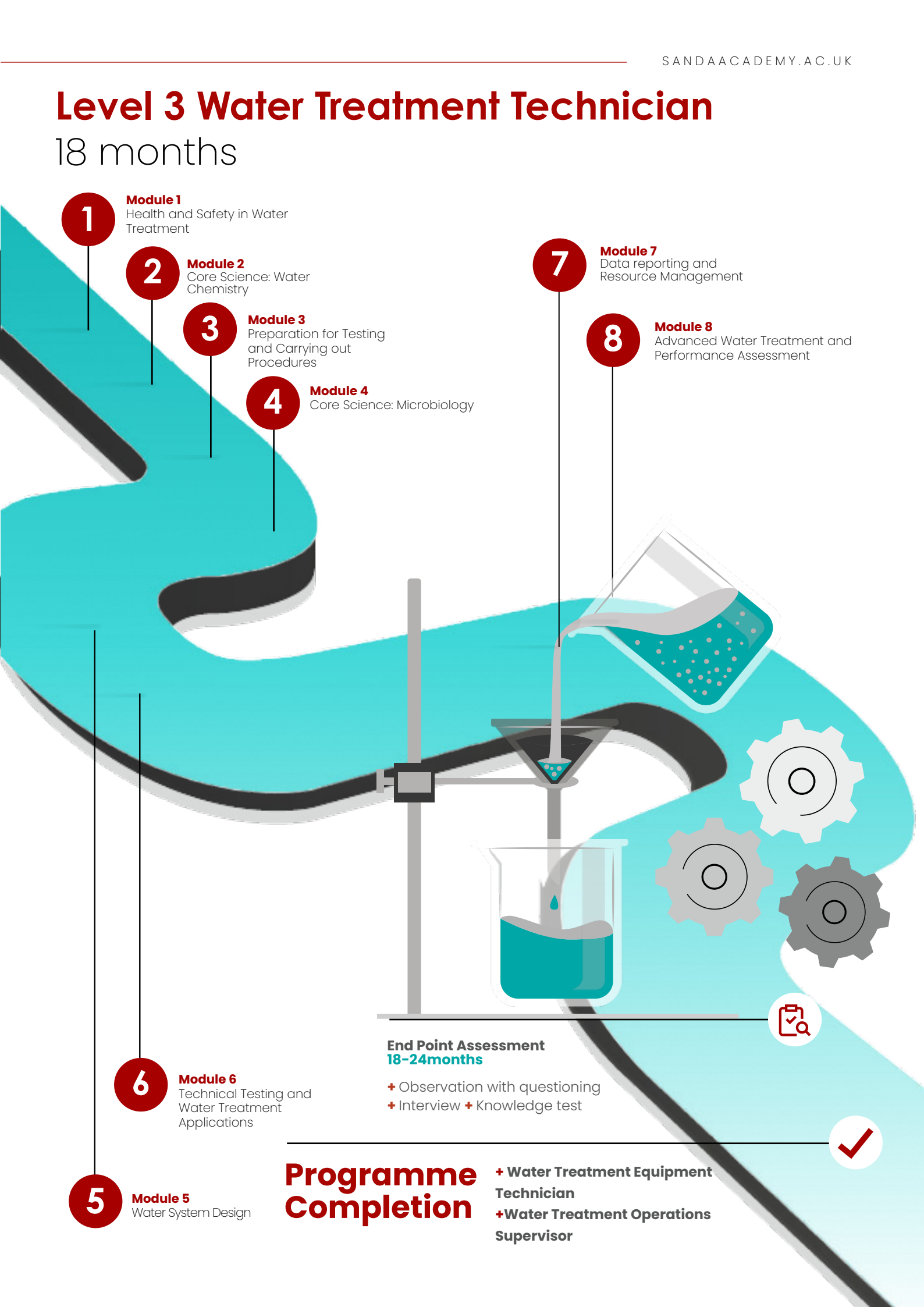
4 **Module 4**
Core Science: Microbiology

5 **Module 5**
Water System Design

6 **Module 6**
Technical Testing and Water Treatment Applications

7 **Module 7**
Data reporting and Resource Management

8 **Module 8**
Advanced Water Treatment and Performance Assessment



End Point Assessment
18-24months

+ Observation with questioning
+ Interview + Knowledge test

Programme Completion

+ **Water Treatment Equipment Technician**
+ **Water Treatment Operations Supervisor**

Level 3 Maintenance Engineer
Programme Overview

Provides a comprehensive pathway into the world of high-tech engineering and automation. This programme blends hands-on experience with theoretical learning, enabling apprentices to develop expertise in maintaining and optimising complex machinery used across a wide range of industries.

Standard Code: ST1326
Funding Band: £27,000

The Pathways

+ Pearson BTEC Level 3 Diploma in Advanced Manufacturing Engineering

Delivery Model

+ Months 0-30

1 day per week day release delivered online.

On-site coaching every 10-12 weeks.

+ MonthS 27-30

Engineering Project

+ End Point Assessment

Apprentices undertake an assessment to determine achieved required capabilities

The Progression Routes

+ This apprenticeship aligns with Institute of Engineering and Technology (IET) for Engineering Technician

+ This apprenticeship aligns with Institution of Mechanical Engineers (IMechE) for Engineering Technician

About the programme

The Level 3 Mechatronics Maintenance Technician Apprenticeship at S&A Academy equips learners with the expertise to install, maintain, and repair mechanical, electrical, and electronic systems in advanced manufacturing environments. Apprentices develop skills in fault diagnosis, preventative maintenance, and system optimisation, ensuring that complex machinery operates efficiently and meets industry standards.

This apprenticeship prepares individuals for careers in sectors such as engineering, automation, polymer processing, aerospace, aviation, automotive, defence, logistics, pharmaceutical, energy, and food and drink manufacturing. These industries rely on automated equipment with integrated systems that combine mechanical, electrical, electronic, control, and fluid power technologies. Technicians may work in factories, workshops, hangars, or outdoor environments, often dealing with high voltages, high pressures, ionising radiation, and other potential hazards. They must be able to work autonomously or as part of a team, maintaining a high level of professionalism and responsibility while ensuring equipment safety and reliability.

This apprenticeship offers industry-recognised qualifications alongside practical experience, making it an excellent opportunity to gain essential skills while earning and learning on the job.

What your apprentice will learn



Multi-Disciplinary Maintenance Skills:

Apprentices learn to install, test, diagnose faults, and maintain complex automated equipment across mechanical, electrical, electronic, fluid power, and control systems.



Safety & Compliance:

They develop a strong understanding of health and safety regulations, industry standards, and best practices for working with high-risk equipment in advanced manufacturing environments.



Problem-Solving & Technical Expertise:

Apprentices gain the ability to troubleshoot, optimise system performance, and ensure machinery operates efficiently to meet industry targets for quality, safety, and productivity.

Level 3 Maintenance Engineer

30 months + 6 months EPA period

1 **Module 1**
Health and Safety in the Engineering Workplace

2 **Module 2**
Communications for Engineering Technicians

3 **Module 3**
Mathematics for Engineering Technicians

4 **Module 4**
Principles and Applications of Microcontrollers

5 **Module 5**
Mechanical Principles of Engineered Systems

6 **Module 6**
Electric, Pneumatic and Hydraulic Systems and Devices

7 **Module 7**
Calculus to Solve Engineering Problems

8 **Module 8**
Industrial Robotics

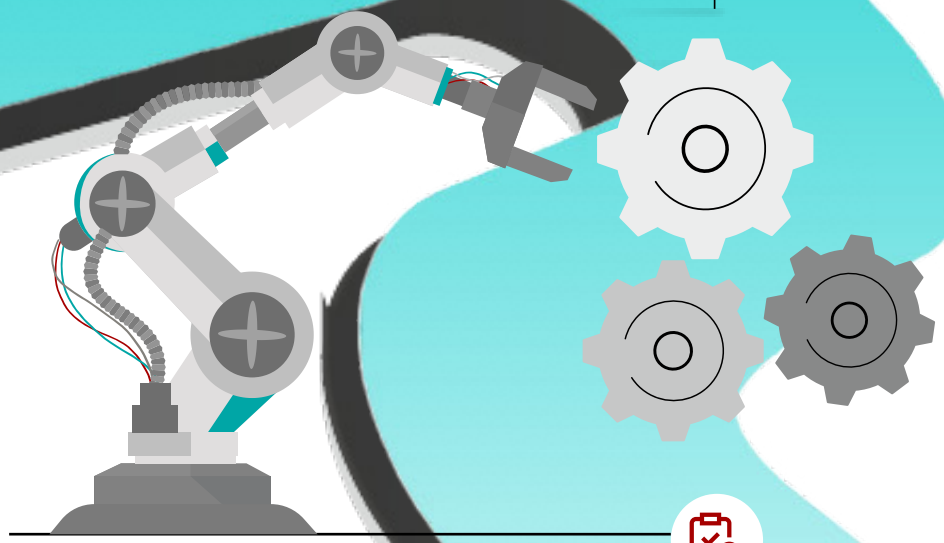
9 **Module 9**
Engineering Project – Planning and Research Phase

10 **Module 10**
Autonomous Mobile Robotics

11 **Module 11**
Engineering Project – Prototyping and Testing Phase

12 **Module 12**
Advanced Engineering Mathematics

13 **Module 13**
Final Engineering Project – Refinement and Presentation



End Point Assessment
3 Months

+ Observation with questions
+ Interview underpinned by a portfolio of evidence

Programme Completion

+ Maintenance Technician
+ Engineering Technician
+ Automation Technician

Level 5 Technician Scientist
Programme Overview

The Level 5 Technician Scientist Apprenticeship at The S&A Academy is designed for aspiring scientists looking to develop advanced technical knowledge and practical expertise in laboratory-based roles. This programme provides a strong foundation in scientific research, analytical techniques, and laboratory operations, preparing apprentices for careers in industries such as pharmaceuticals, biotechnology, healthcare, and food manufacturing.

Standard Code: ST0597
Funding Band: £21,000

The Pathways

+ Applied Biology:
Cells, living organisms, immunology infectious disease, chemistry,

+ Applied Chemistry:
Elements, atoms, chemical & physical properties, kinetics, separation science, identification of substances

Delivery Model

+ Months 0-36

Day release 1 day a week
4 days in the workplace

+ Month 12 and 24

In-person residential in our laboratories developing state of the art up to date techniques

+ 3rd Party End Point Assessment

Project and Professional Discussion

The Progression Routes

+ Registered Scientist

+ Level 7 Research Scientist Apprenticeship

About the programme

Apprentices will build on their Level 3 Laboratory Technician skills, developing the ability to plan and conduct complex experiments, analyse and interpret data, and apply scientific principles to problem-solving in real-world settings. The curriculum ensures a sequenced and structured approach, covering key areas such as analytical chemistry, microbiology, molecular biology, and quality assurance and has two pathways.

Training is delivered through a combination of virtual in person teaching, workplace-based projects, and on-site training, with support from expert tutors and industry mentors. Apprentices will also enhance their critical thinking, leadership, and project management skills, equipping them for senior technical roles.

Assessment is conducted via practical observations, portfolio development, and an end-point assessment, leading to a nationally recognised qualification. Successful apprentices can progress into scientific research, laboratory management, or further study, including a full science degree or professional accreditation.

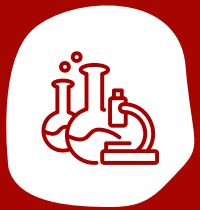
What your apprentice will learn



Quality requirements & accuracy maintenance:
Develop precision and attention to detail in scientific work to meet industry quality standards.



Documentation practices according to GLP, GCP & GMP guidelines including health & safety:
Learn to maintain accurate records following Good Laboratory Practice (GLP), Good Clinical Practice (GCP), and Good Manufacturing Practice (GMP), ensuring compliance and safety.



Expertise in practical work & troubleshooting during experiments:
Gain hands-on experience in conducting experiments, analysing results, and solving technical issues in a laboratory setting.

Level 5 Technician Scientist - Standard

36 months + 3 months EPA period

1 **Module 1**
Foundations of Scientific Investigation

2 **Module 2**
Laboratory Practice & Experimental Techniques

3 **Module 3**
Troubleshooting Laboratory Equipment & Instrumentation

4 **Module 4**
Data Collection & Record Keeping

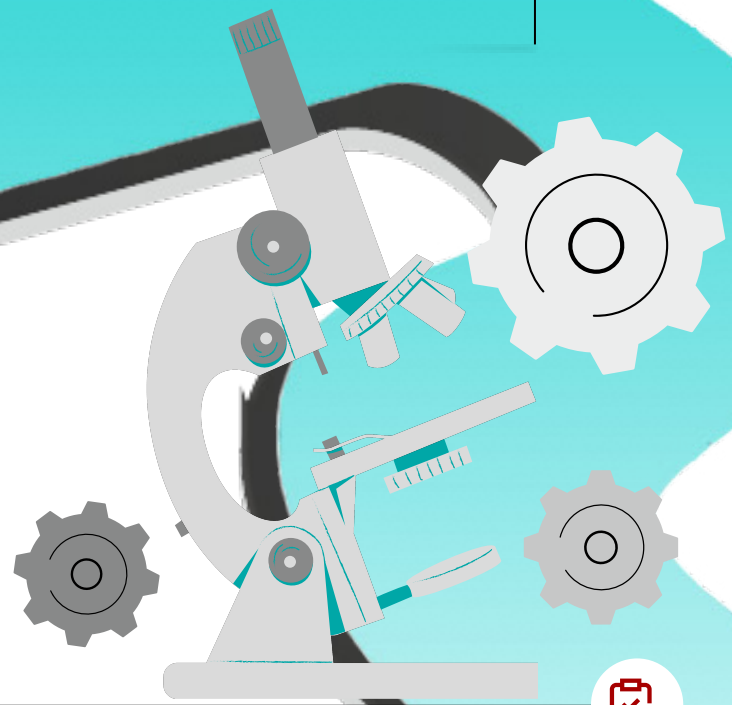
5 **Module 5**
Data Analysis & Interpretation

6 **Module 6**
Communication & Collaboration in Science

7 **Module 7**
Problem-Solving & Critical Thinking

8 **Module 8**
Continuous Improvement & Workforce Developments

9 **Module 9**
Professional Development & Workload Management



End Point Assessment Months 36-40

+ Project and Professional Discussion

Programme Completion

+ **Quality control laboratory assistant**
+ **Laboratory research assistant**
+ **Technical laboratory assistant**

Level 5 Technician Scientist - Biology Pathway

36 months + 3 months EPA period

1 Module 1
Regulation and Quality in the Applied Sciences

2 Module 2
Scientific Data Handling Approaches and Techniques

3 Module 3
Cell Biology

4 Module 4
Fundamentals of Chemistry

5 Module 5
Anatomy and Human Physiology

6 Module 6
Fundametnals of Biochemistry

7 Module 7
Managing Scientific Projects

8 Module 8
Fundamental Laboratory Techniques

9 Module 9
Analysis of Scientific Data and Information

10 Module 10
Applied Sciences Research Project

11 Module 11
Biochemistry of Macromolecules and Metabolic Pathways

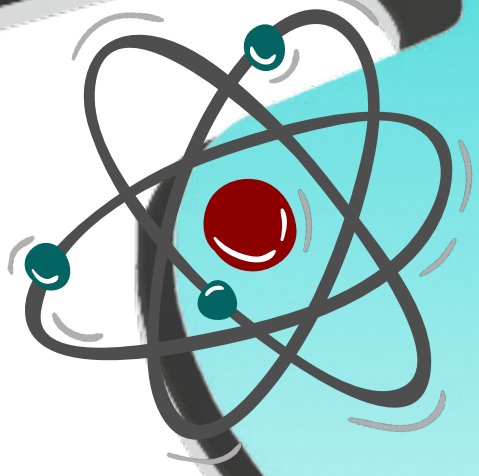
12 Module 12
Molecular Biology and Genetics

13 Module 13
Immunology

14 Module 14
Infectious Diseases and Diagnosis

15 Module 15
Science Laboratory Management
Residental 2

16 Module 16
Creation of Journal Article



End Point Assessment Months 36-40

+ Project and Professional Discussion

Programme Completion

+ Quality control laboratory assistant
+ Laboratory research assistant
+ Technical laboratory assistant

Level 5 Technician Scientist - Chemistry Pathway

36 months + 3 months EPA period

1 **Module 1**
Regulation and Quality in the Applied Sciences

2 **Module 2**
Scientific Data Handling Approaches and Techniques

3 **Module 3**
Inorganic Chemistry

4 **Module 4**
Organic Chemistry

5 **Module 5**
Physical Chemistry

6 **Module 6**
Analytical Chemistry

7 **Module 7**
Managing Scientific Projects

8 **Module 8**
Fundamental Laboratory Techniques
Residental 1

9 **Module 9**
Analysis of Scientific Data and Information

10 **Module 10**
Designing Technical Roadmaps
Year 2 Begin

11 **Module 11**
Further Analytical Chemistry

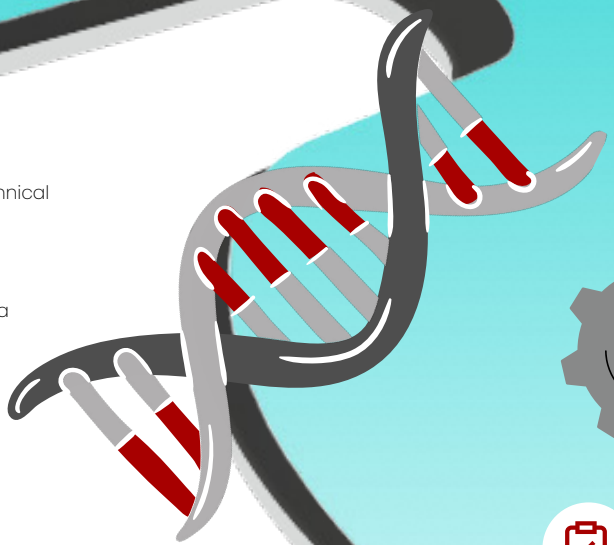
12 **Module 12**
Aromatic and Carbonyl Compounds

13 **Module 13**
Solid State Metal and Transition Chemistry

14 **Module 14**
Spectroscopy, Surface Chemistry and equilibria

15 **Module 15**
Science Laboratory Management
Residential 2

16 **Module 16**
Creation of Journal Article



End Point Assessment **Months 36-40**

+ Project and Professional Discussion

Programme Completion

+ Quality control laboratory assistant
+ Laboratory research assistant
+ Technical laboratory assistant

Level 5 Senior Laboratory Manager
Programme Overview

Built for career professionals, second-career leaders, and aspiring senior executives, this apprenticeship provides practical business education tailored to senior leadership roles. It equips self-motivated managers with the skills to lead strategically, drive business success, and advance their careers in senior leadership.

Standard Code: ST0385
Funding Band: £9,000

Delivery Model

+ Months 0-20 (Includes 3 month EPA Period)

Fortnightly blended sessions (virtual & face-to-face)
Monthly 1:1 coaching with experienced Senior Leadership Coach

+ 3rd Party End Point Assessment

Apprentices undertake 2 assessments:

Business improvement project and presentation

Professional discussion and portfolio of evidence

The Progression Routes

+ Level 7 Senior Leader Apprenticeship (Equivalent to a Master's Degree)

+ Chartered Management Institute (CMI) Level 7 Diploma in Strategic Management and Leadership

+ MBA (Master of Business Administration)

+ PRINCE2 or APM Qualifications

About the programme

The Operations Manager Level 5 Apprenticeship is designed for managers looking to enhance their leadership and middle management capabilities. This programme develops key skills in operational planning, financial management, project delivery, and people leadership. Apprentices learn to drive business performance, manage change, and align operations with organisational goals. Through a combination of workplace learning and structured training, they gain practical experience in decision-making, problem-solving, and stakeholder management. Upon completion, apprentices will be equipped with the expertise to lead teams effectively, improve business efficiency, and progress into senior management roles across various industries.

What your apprentice will learn



Interpersonal excellence: leadership, communication, relationship-building:

How to excel in leadership, communicate effectively, and build strong relationships to foster a positive work environment.



Coaching & mentoring, innovative operations management & leadership principles:

Skills in coaching and mentoring others, as well as applying innovative leadership and operational management strategies to drive business success.



Develop critical skills: operational, project management, finance:

Key skills in managing day-to-day operations, overseeing projects, and understanding financial aspects of business.

Level 5 Senior Laboratory Manager

17 months + 3 months EPA period

1 **Module 1**
Self Awareness & Personal development

2 **Module 2**
Leadership Styles

3 **Module 3**
Organisational culture

4 **Module 4**
Leadership communication

5 **Module 5**
The Organisation: Roles & Responsibilities

6 **Module 6**
HR Systems & Guidelines

7 **Module 7**
Drivers for Change

8 **Module 8**
Implementing Change

9 **Module 9**
Recruitment & Onboarding

10 **Module 10**
Finance

11 **Module 11**
High Performing teams

12 **Module 12**
Managing performance & conflict

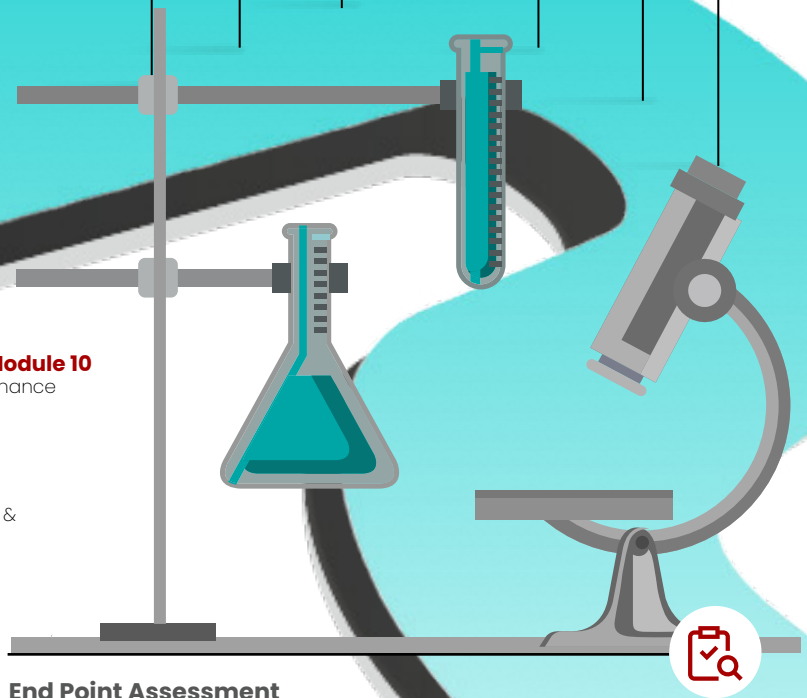
13 **Module 13**
Coaching and Mentoring

14 **Module 14**
Operational planning & problem solving

15 **Module 15**
Trust & Collaboration

16 **Module 16**
Project Mgmt

17 **Module 17**
Report writing & presentation skills



End Point Assessment
3 Months

Professional Discussion underpinned by portfolio of evidence +
Project/Work-Based Project

Programme Completion

+ Department lab manager
+ Reigonal lab manager

Commercial Courses

Polymer Science Courses

1 Introduction to Polymer Science

+ **Cost:** Enquire
+ **Duration:** 2 Days

This course provides a foundational understanding of polymer chemistry, covering a wide range of materials used in various industries. Participants will explore the structure, properties, and applications of different polymers, gaining essential knowledge for roles in manufacturing, materials science, and engineering. Through a mix of theory and practical examples, learners will develop a strong grasp of key concepts such as polymer classification, processing techniques, and performance characteristics.

2 Materials Handling

+ **Cost:** Enquire
+ **Duration:** 2 Days

This course provides an introduction to best practices in material handling, covering key considerations for efficient and safe operations. Participants will learn about handling techniques, equipment selection, and storage solutions, as well as how to identify and troubleshoot common issues. The training is ideal for those working in logistics, manufacturing, or warehousing, offering practical insights to improve workflow, reduce risks, and enhance overall material management.

3 Injection Moulding Fundamentals

+ **Cost:** Enquire
+ **Duration:** 2 Days

This course provides a comprehensive introduction to the key considerations in injection moulding processes. Participants will explore best practices, troubleshooting techniques, and common pitfalls to avoid, ensuring efficient and high-quality production.

4 Compounding Fundamentals

+ **Cost:** Enquire
+ **Duration:** 2 Days

This course introduces compounding techniques for rubbers and silicones, focusing on best practices, equipment maintenance, and troubleshooting to ensure quality and efficiency in production.

Technical & Scientific Skills Development

5 Quality Management for Scientists

+ **Cost:** Enquire
+ **Duration:** 1 Day

This course provides essential training in quality assurance, regulatory compliance, and best practices, all aimed at ensuring accuracy, reliability, and excellence in scientific work. Participants will gain an understanding of the key principles and standards that govern scientific research and laboratory environments, enabling them to uphold the highest levels of precision and consistency in their work.

6 Chemical Handling

+ **Cost:** Enquire
+ **Duration:** 1 Day

This course equips technicians with essential skills in the safe storage, usage, transportation, and disposal of chemicals, ensuring full compliance with industry regulations and best practices. Participants will learn how to handle hazardous substances safely, implement proper safety protocols, and mitigate risks in the workplace. The training also covers key regulatory frameworks, such as COSHH.

Technical & Scientific Skills Development

7 Calibration Masterclass

+ **Cost:** Enquire
+ **Duration:** 1 Day

This course provides in-depth training on precision measurement, instrument calibration, error minimisation, and compliance, all aimed at ensuring accuracy and reliability in both laboratory and industrial settings. Participants will learn the essential techniques for conducting precise measurements and calibrations, as well as strategies to reduce errors and improve the consistency of results.

8 Microscope Maintenance

+ **Cost:** Enquire
+ **Duration:** 1 Day

This course provides hands-on training in cleaning, calibration, troubleshooting, and routine servicing of laboratory microscopes, ensuring their optimal performance and longevity across scientific disciplines. Participants will gain practical experience in maintaining microscopes, learning how to properly clean and calibrate lenses, adjust settings for accurate results, and troubleshoot common issues. The training also covers best practices for routine servicing, ensuring that microscopes continue to deliver reliable, high-quality imaging throughout their lifespan.

FAQ's

Q: Do you offer customised training for businesses?

A: We design tailored training programmes, including customised apprenticeships and organisation-wide Learning & Development schemes.

Q: What commercial training programmes do you offer?

A: We provide training across three academies:

Technology, Data & AI Academy – Digital skills, software development, marketing, cybersecurity, and testing.
Science Academy – Training for laboratory and science manufacturing roles.
Business Academy – Leadership, management, and business administration.

Q: Do you offer intensive training outside of apprenticeships?

A: Our 8 to 14-week bootcamps take learners from beginner to job-ready. Available to individuals and businesses, they provide specialist training outside of traditional apprenticeships.



Management & Leadership

Train the Trainer

+ **Cost:** Enquire
+ **Duration:** 1 Day

During this 1 day course you will learn the theory of teaching and training practices and have the opportunity to implement these theories through engaging activities with one of our experienced and dedicated Senior Learning coaches.

This course is suitable for those delivering training within any industry or setting with little previous experience.

Management for Technicians

+ **Cost:** Enquire
+ **Duration:** 1 Day

This one-day course provides focused training on essential management skills, including performance management, handling difficult conversations, maximising team potential, and navigating change effectively. Through practical exercises and real-world scenarios, participants will learn how to set clear expectations, provide constructive feedback, and address performance issues with confidence. The course also explores strategies for fostering a positive work environment, enhancing team productivity, and leading through periods of change. Designed for managers and team leaders, this intensive training equips participants with the tools needed to drive success

The S&A Transform Group.

S&A ACADEMY

Contact Us

Find out more ›

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