



Developing Tomorrows Workforce, Today.

About Us

Basingstoke ITEC is a charity that is primarily funded through the Government Apprenticeship programmes and charitable contributions. We have been working with employers and learners successfully for over 40 years.

We think it is really important to support the community by providing a solid foundation of personal development for the corner stone of everyone's future careers. We want learners to recognise their innate characteristics and suitability for their future careers. We help employers develop tomorrow's workforce today.

Our vision is for Basingstoke ITEC to be recognised as the Digital and IT training provider who can be relied upon to provide an outstanding learning experience. Although we are based in Basingstoke, we work predominantly across the South East but have the ability to work across England.





Software Development Technician L3 Curriculum

This is an overview of the Software Development Technician Level 3 curriculum. We want to work with you to develop a bespoke learning plan to enable us to deliver the knowledge in a logical sequence.

We will complete an initial assessment, skill scan and math and English assessment to determine the needs of the apprentices. Our aim is for the apprenticeship programme to have a positive impact for you and for the apprentice so that they receive a great learning experience.

This plan is fully adaptable to support those with special educational needs or disabilities.

What is the Software Development Technician Standard?

Software development technicians are the supportive entry level team member helping to create computer programs. Some assist in developing the applications that allow people to do specific tasks on a computer or another device or assist in developing the underlying systems that run the devices or that control networks. Core skills include:

- Following clearly defined requirements to deliver software development.
- Interpreting simple design requirements for discrete components of a project under supervision.
- Building simple software components
- Engaging in testing that specific components meet intended functionality.
- Maintaining appropriate project documentation throughout.

Who is this for?

The roles associated with this role can vary but typical job titles include:

- Junior Developer
- Junior Web Developer
- Junior Programmer
- Junior Software Developer
- Assistant Programmer

Delivery

The delivery of this apprenticeship will include:

- One to one support on a monthly basis from your Trainer
- Regular sessions with your trainer to develop the knowledge, skills and behaviours of the standard.
- All apprentices will have access to an e-portfolio.
- Maths and English functional skills training – If required depending on GCSE results.

Duration

- The duration of the Level 3 Software Development Technician Apprenticeship will typically take 17 months to complete.
- The learning phase in the first 14 months is known as being 'On Programme' this is where the Knowledge, Skills and Behaviours required for the standard will be developed.
- The final 3 months of the apprenticeship will be the completion of the 'End-Point Assessment' phase.



What is covered in Software Development Technician?



Occupational Duties

- Follow clearly defined requirements to deliver software development activities and products
- Report progress against metrics on software development activities accurately throughout the stages of the software development lifecycle
- Identify and report any impediments to progress in development activities to supervisors
- Follow instructions to convert customer requirements to technical requirements
- Communicate outcomes from development activities to team members and other stakeholders both internal and external
- Identify and implement security features of a proposed design

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- Write logical and maintainable software solutions in line with given specifications to meet the design requirements and organisational coding standards
 - Apply security principles and practice to the software development tasks assigned
 - Maintain appropriate project documentation throughout the software development tasks.
 - Apply appropriate recovery techniques to ensure that the software solution being developed is not lost.
 - Undertake unit testing of solutions, with appropriate levels of test code coverage, to identify and, where necessary, escalate issues
 - Contribute to testing of the end-to-end software solution to ensure a high-quality output
 - Support delivery of deployment phases, including trials and final release.
 - Identify the need for a suitable 'bug fix', appropriate to the severity and priority of the issue identified.
 - Practice continuous guided self-learning to keep up to date with technological developments to enhance relevant skills and take responsibility for own professional development



Knowledge & Skills

Develop a range of skills and knowledge, where they will 'discover', 'practice' and 'apply' what they have learned.

Including:

- Software development life-cycle
- Methodologies including Agile and Waterfall
- Python Programming
- Web fundamentals
- Cloud Development
- ISO Industry Standards
- Relational and non-relational (nosql) databases

Gateway and End Point Assessment

Once all the duties have been completed, English and maths achieved and the portfolio of evidence is finished, the apprentice, employer and Basingstoke ITEC will make the decision to progress to the End-Point Assessment.

Apprentices will enter a period called 'Gateway' they will be prepped and supported by Basingstoke ITEC for each stage of their End-Point Assessment.

End-Point Assessment



ASSESSMENT METHOD 1
Work-based project completed over a 4 week period followed by questioning



Portfolio
Full evidence of knowledge, skills and Behaviours



ASSESSMENT METHOD 2
Professional Discussion

GATEWAY

PRE GATEWAY

POST GATEWAY

Progression Opportunities

On completion of the Level 3 Software Development Technician Apprenticeship, there is the opportunity for progression, depending on your job role.

What will apprentices gain upon completion?

- Level 3 Software Development Technician Apprenticeship – Pass / Merit or Distinction grade
- Level 2 Functional Skills in Maths (if required)
- Level 2 Functional Skills in English (if required)

Learner Journey – Delivery Process

1 - 2

3 - 5

6 - 8

9 - 11

12 - 14

15 - 17

months

Induction

Development of Knowledge, Skills and Behaviours for standard

EPA Prep

Develop showcase portfolio for assessment

End Point Assessment

Maths and English Functional Skills (If Required)

Regular trainer sessions and workshops – face to face and remote

Feedback