

THE APPRENTICE and TRAINING PARTNERSHIP

SOFTWARE DEVELOPMENT APPRENTICESHIPS



Programme Overview:

The programme combines excellent quality classroom training with on-the-job experience to develop real world skills.

This Apprenticeship delivers the qualifications, skills and technical knowledge in the most popular technologies and programming languages. With flexibility to suit your business needs and a combination of delivery methods, the apprentice will gain the skills that are most relevant to their job role.

Entry Requirements:

The entry requirements for this role are decided by the employer. We would recommend GCSE's or equivalent at Grade C equivalent or higher with an aptitude test or focus on IT/Maths Skills for Level 3 entrants. For Level 4 entrants we would recommend A Levels or a Level 3 Apprenticeship or relevant qualifications, relevant experience and/or an aptitude test with a focus on functional Maths.

Apprentices need to have Maths and English at level 2 before they can complete their End-Point Assessment. If training and examination in English and Maths is required prior to End-Point Assessment, this is directly funded by the ESFA and does not form part of the apprenticeship cost.

Programme Duration:

Level 3 apprenticeship: 12-18 months

Level 4 apprenticeship: 18-24 months

Initial Assessments:

Initial assessments for Maths and English will be carried out for all apprentices using an approved diagnostic tool. This will include a full diagnostic of knowledge in Maths and English to gauge the level at which the apprentice is working. This will enable us to support the apprentice and structure training provision. Learners' suitability for the chosen apprenticeship programme is also initially assessed to ensure each learner is on the most appropriate programme for their chosen career path.

Delivery Model:

A minimum of 20% of the apprenticeship training takes place off-the-job and is flexibly delivered to suit your business. Training can be a combination of classroom and workplace workshops, block-training or day-release at our centre; with the remaining time being spent in the workplace.

A full timetable for training, ongoing assessment and End-Point Assessment will be issued to both you as the employer; and the apprentice, once the delivery model and training elements have been agreed.

On Programme Assessment will take the form of progress reviews with the trainer, employer and apprentice at least every 12 weeks. Feedback with ongoing development will include additional learning materials, resources and training delivered through the apprentice's e-portfolio OneFile; to which employers have access to view the progress and the development of each apprentice.

Programme Information:

Qualifications:

- Advanced Apprenticeship Software Development Technician Level 3 and/or Higher Apprenticeship Software Developer Level 4
- BCS Systems Development Essentials (Software Development Methodologies)

Optional qualifications can include one of:

- Software Language Knowledge Module - not language specific
- Oracle SQL Developer
- Oracle Java Certified
- MCP.NET
- MTA/MCP programming in HTML5 with JavaScript and CSS3
- MTA programming in C#

Example Programme Structure:

The programme is broken down into four areas to ensure that each apprentice has a rounded knowledge of principles, techniques and technologies. This involves:

- Knowledge modules; these are flexibly scoped to meet the demands of your business. Examples of these are found below.
- Portfolio preparation; the portfolio is a showcase of work from the apprentices workplace to show how the knowledge modules, skills and behaviours have been applied
- Project preparation; the project allows the apprentice to apply their skills to solve a business-related scenario
- Interview; End-Point Assessment interviews will assess the contents of the portfolio and project and focuses on the standard of the apprentices work and how they have completed them

The designated apprenticeship trainer will support the employer and apprentice throughout the programme as a single point of contact for questions and queries. This includes additional support for portfolio and project preparation, along with any advice and guidance needed.

Level 3:

This part of the apprenticeship introduces the apprentice to the fundamental software development skills that they will need for their job role. It covers concepts on programming systems and software development.

1. **Induction** - 1 Training Day
2. **Software Design and Development Fundamentals** (introduction to programming languages C# or Java) - 10 Training Days
3. **Intermediate Software Programming** (C# or Java) - 10 Training Days
 - a. BCS assessment on programming
4. **Web Fundamentals** (JavaScript, CSS, HTML, XHTML and HTML5) - 5 Training Days
5. **Database Development** (SQL) - 5 Training Days

6. **Introduction to Systems Development** (C# or Java or .Net) - 5 Training Days
 - a. BCS assessment on Systems Development
7. **Software Development Methodologies** (Agile, Scrum, Object Orientated Programming) - 5 Training Days
8. **Assessment Gateway** - 5 Preparation Days
9. **End-Point Assessment** - 3 Assessment Days

Level 4:

Moving into Level 4, the apprenticeship builds on the content covered in Level 3 and advances the apprentice's knowledge in order for them to work on more complex projects; preparing them for higher level responsibility.

1. **Induction** - 1 Training Day
2. **Advanced Software Programming** (C# or Java) - 10 Training Days
3. **Software Testing** - 5 Training Days
4. **UX/UI** - 5 Training Days
5. **Systems Development** - 5 Training Days
 - a. BCS Professional Certificate in Systems Development Essentials taken
6. **Database Design** - 5 Training Days
7. **MTA Application Development Fundamentals** (HTML5, CSS, JavaScript) - 5 - 10 Training Days
 - a. MTA exam taken at this stage
8. **Assessment Gateway** - 5 Preparation Days
9. **End-Point Assessment** - 3 Assessment Days



Questions?

If you have any questions or concerns relating to supporting an Apprentice, your assigned tutor is always available to help, or, contact one of our advisors on **0330 380 0249.**