



SOFTWARE DEVELOPMENT TECHNICIAN

LEVEL 3

Advanced Apprenticeship

New Apprenticeship Standards

**BE THE
FUTURE**

About Us

Baltic Training are a forward-thinking, innovative apprenticeship provider who strive for excellence.

Working with leading employers in the IT sector, we endeavour to reignite the economy by ensuring we secure talented, driven, energetic young adults for apprenticeship opportunities.

Our programmes and delivery models are tailored to meet individual needs. We are committed to changing and shaping the lives of young people providing them with the best training, qualifications and learning experience possible in order to ensure they have the skills and knowledge required to be the IT specialists of the future.

The Baltic Training Apprenticeship programme is a formal education programme in which the apprentice will learn in part through online delivery of content and instruction. Face-to-face classroom methods are combined with Online Live, our virtual learning environment. Customisation of instruction and assessment is a major benefit of this approach, ensuring apprentices receive ongoing support and access to the course resources and learning materials.

Career Paths

- Software Development Technician
- Junior Web Developer
- Junior Application Developer
- Junior Programmer
- Junior Mobile App Developer

Programme Overview

BCS Level 3 Certificate in Software Development Context and Methodologies (Part 1 & 2)



Software Development Environment, Roles and Structure

5 Day Online Live



Software Development Processes

4 Day Online Live +
1 Day Location Based Exam

BCS Level 3 Certificate in Programming (Part 1, 2 & 3)



Software Development Requirements

5 Day Online Live



Developing Code Using Good Practices & Logic

5 Day Online Live



Software Data, Interfaces & Security

4 Day Online Live +
1 Day Location Based Exam



Course Details

The aim of this apprenticeship is to provide the skills and knowledge required to begin a career in software development. This allows the learner to gain an understanding of the tools and methodologies used by software developers. Learners will gain an appreciation of the concepts, approaches and techniques of programming and will apply these to simple software components used by teams within their organisation and their customer base. Software development technicians will also be engaged with software testing to ensure that components meet the required specifications and intended functionality.

Software Development Environment, Roles and Structure Exam 1

Apprentices will explore the information required for specific markets, sectors and businesses in order to develop for the required environment. In doing so they will relate this to various methodologies such as: incremental/iterative, sequential and Agile. They will also understand the various roles and relationships within a development team while illustrating underlying architecture of applications, platforms and characteristics of software.

Aims include:

- Business Context and Market Environment
- Software Development Methodologies
- Team Roles and Relationships
- Applications Structure and Development Platform Context

Software Development Processes Exam 1

Apprentices will understand and summarise the phases of the SDLC, understand the need for testing and its various forms such as: functional, non-functional, regression, white/black box & experience-based. In addition they will explain how to use configuration management tools and techniques as well as version control approaches.

Aims include:

- The Software Development Life-cycle
- Software Testing
- Configuration Management and Version Control Systems

Functional Skills

This is subject to evidence provided.

- Level 2 - Maths
- Level 2 - English

Learners who require Functional Skills, will be supported via Online Live, support sessions will last half a day each. Exams will be held in a local test centre.

Software Development Requirements Exam 2

Apprentices will outline the discovery phase of a development project determining why, who, what, when & how and the various methods of this can be captured. Summarise key business concepts and explain key technical concepts in relation to development activities of a project. In addition they will explore the requirements of the development activities to take place.

Aims include:

- The End-User Context For Software Development Activities
- How Code Integrates into the Wider Project
- Developing Software Against a Set of Functional and Non-Functional Requirements

Developing Code Using Good Practices & Logic Exam 2

Apprentices will follow a logical approach to coding by understanding and illustrating: key programming concepts, core constructs, structures & algorithms, employing modularity and rational reuse of code and debugging. They will also show how they follow good practices by: applying coding principles to different business contexts, use different coding standards and recognising how automation can improve quality and operational effectiveness.

Aims include:

- Implement Software Code Following a Logical Approach
- Follow Good Coding Practices

Software Data, Interfaces & Security Exam 2

Apprentices will understand databases and database types while summarising effective data modelling and normalisation. Summarise HCI and know the key concepts to good user interface design. In addition they will know and understand security risks, implications and requirements when undertaking development activities.

Aims include:

- Code Against Data Sources
- Understand the Principles of Good Interface Design
- Security in Software Development

External Assessment, Synoptic Project and Overview

The final end point assessment is completed in the last few months of the apprenticeship. It is based on the following:

An Employer Reference -
The employer must provide feedback on the learner's skills, attributes and behaviours that link to the summative portfolio.

A Summative Portfolio -
Produced towards the end of the apprenticeship and containing evidence from real work projects which have been completed during the apprenticeship. The projects as a whole will cover the totality of the standard, which is assessed as part of the end point assessment. The apprentice will be supported in the completion of these projects by a technical mentor who is available for a remote mentored learning session if required.

Synoptic Project -
The apprentice undertakes a business related project over a one week period away from the day to day workplace.

Interview -
A structured interview with an assessor exploring what has been produced in the portfolio and the project, as well as looking at how it has been produced.

Entry Requirements

Candidates enrolled onto this Apprenticeship will have the following:

- GCSEs, or equivalent educational attainment
- Eligibility for employment within the information technology sector, demonstrated through the standard Baltic Training Services selection process
- Ability to demonstrate to an employer that they have a reasonable expectation of achieving the required outcomes of the Advanced Apprenticeship

The training is delivered using a variety of methods, including Online Live, workshops and self study. Apprentices will receive assessor contact every 6 weeks which will be a full progress review, we encourage all managers and mentors to participate in this progress review.

Towards the end of the apprenticeship the assessor will provide final contact sessions to prepare your apprentice for EPA.

Courses will run typically every 5-8 weeks, and the order of the modules can be subject to change.

Following completion of the Software Development Environment, and Software Development Process modules, there will be one exam, and then following completion of the remaining three modules, there will be another exam.

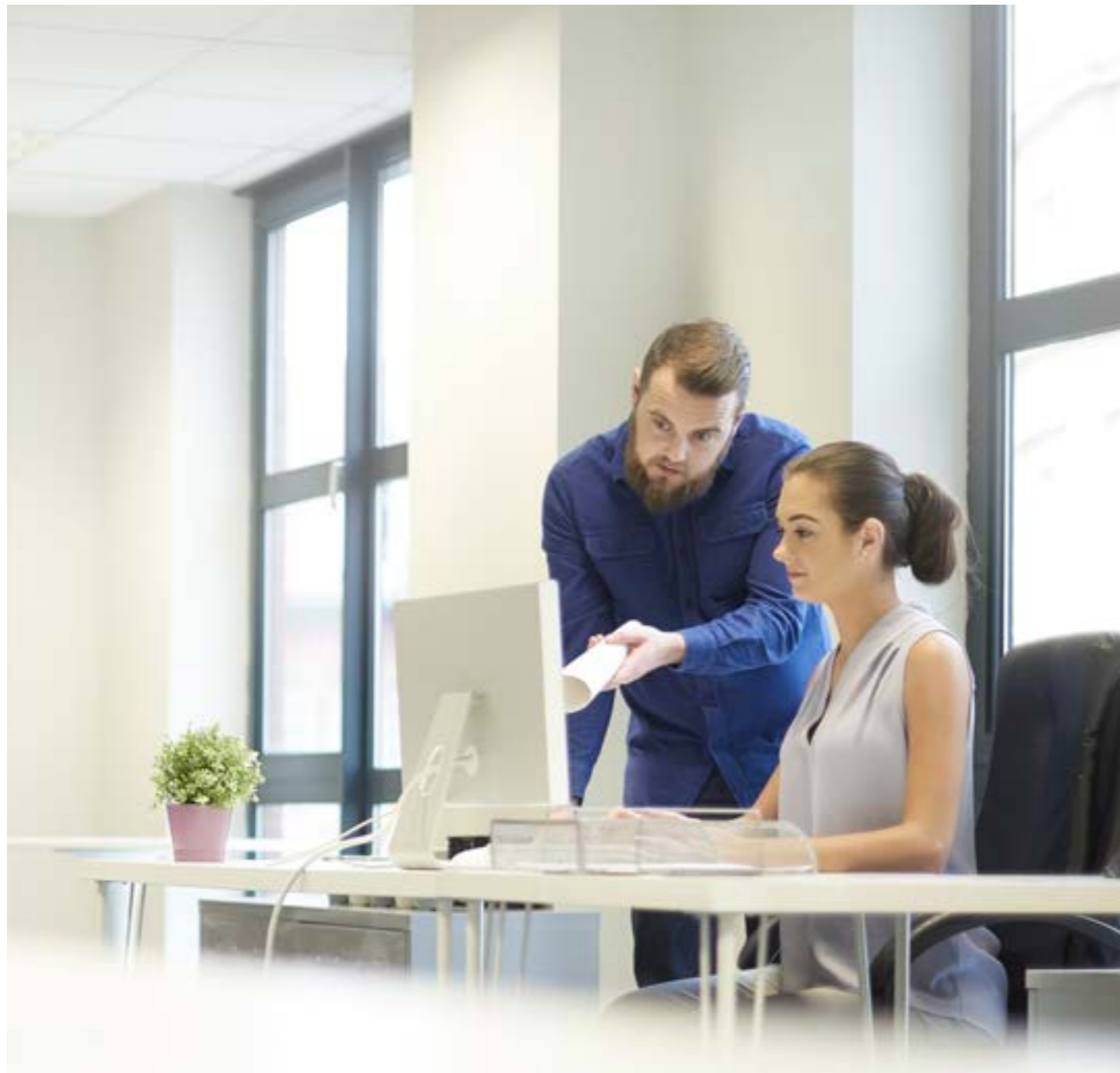
Duration:
Programme - 12-15 Months
Technical Training - 5 Weeks

Technical Training Method:
Online Live and Workshops

Assessment Method:
2 exams to be completed at a Baltic Assessment Centre (location TBC).

Baltic Training do not deliver training in isolation. In addition to the experience gained through meaningful employment the apprentice will develop key business skills which will strengthen their employability within any chosen path.

// Baltic Training are committed to being an equal opportunities employer and training provider, promoting and developing equality and diversity in all its functions across the business.



"We have found working with Baltic a great experience. Communication is clear, deadlines are met and expectations are defined and in most cases, exceeded"



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