

Software Tester (Level 4)



Phase 1

Induction & Initial Assessment



Phase 2

Training modules and contact from Skills Development Coach



Phase 3

Assessment Gateway



Phase 4

End Point Assessment



Apprenticeship Standard Software Tester (Level 4)

Blended Learning breakdown

		Training Centre	Remote
Phase 1	Induction & Initial Assessment		Skills Coach Visit
Phase 2	Software Development Fundamentals C# Parts 1 - 2	3 days per part	Training Centre only
	Software Development Fundamentals C# Part 3 (MTA 98 - 361 Software Development Fundamentals C#)	2 days	Training Centre only
	Testing Tools Parts 1 - 4	2 days per part	20 hours self-study 8 remote training sessions
	Testing Concepts Part 1 - 2	2 days per part	20 hours self-study 8 remote training sessions
	ISTQB Exam Part 3 (ISTQB 2018 Foundation Level)	3 days	Training Centre only
Phase 3	Assessment Gateway	Up to 1 week*	Training Centre only
Phase 4	End Point Assessment	3-5 days	Training Centre only

*To be arranged by your Skills Development Coach

Course Details



Induction/Initial Assessment

Skills Development Coach will conduct the induction in their first visit

Functional Skills

If required, learners will sit a Maths and/or 3 English exams. Allow 1-2 days per exam.

Testing Tools (ISTQB Foundation)

- Software testing objectives and purpose
- Defect, bugs, fault and failures
- Defect or Bug Life Cycle
- Principles of testing
- Fundamental test process
- Psychology of testing
- Software Quality
- Test analysis, design and implementation
- Testing techniques
- Decision tables
- Testing types and techniques
- Test coverage
- Types of coverage
- Types of test tools
- Advantages and benefits of using testing tools
- Disadvantages and risks of testing tools
- Factors for software testing tool selection
- Proof-of-concept or piloting phase for tool evaluation



Testing Concepts (ISTQB Foundation)

- Verification and Validation
- Capability Maturity Model (CMM-Levels)
- Software Development Life Cycle
- Software Development Models
- Software Testing Levels
- Impact analysis
- Test design techniques
- Static test technique
- Informal reviews
- Formal reviews
- The roles and responsibilities of the moderator, author, scribe, reviewers and managers involved during a review
- Types of review
- Roles and responsibilities of a Test Leader
- Roles and responsibilities of a Tester
- Purpose and importance of test plans
- Estimation techniques
- Factors affecting test effort
- Test strategy
- Test monitoring
- Test control
- Configuration management
- Risks in software testing
- Risk analysis
- Incident management



Software Development Fundamentals C#

- Computer storage and data types
- Computer decision structures
- How to identify the appropriate method for handling repetition
- Error handling
- Algorithms and data structures
- The fundamentals of classes
- Inheritance
- Polymorphism
- Encapsulation
- Application Life Cycle management
- How to interpret application specifications
- Web page development
- Microsoft ASP.NET web application development
- Web hosting
- Web services
- Windows apps
- Console-based applications
- Windows Services
- Relational database management systems
- Database query methods
- Database connection methods



Assessment Gateway, Assessment Preparation & Administration Week

(Up to 1 week in the training centre)

Preparation week to understand the four elements of the gateway.

Assessment Phase

- Summative Portfolio
- Synoptic Project
- Technical Interview with SME
- Employer Reference

Achievement of Apprenticeship

**BCS
Software Tester
(Level 4)**