



Software Developer SCQF Level 8 Workshop Breakdown

Course 1: Programming with Java 6 Days

- Writing java-based applications, including event-driven (Java GUI) and OOP
- Unit testing basics with Junit
- Linking code to a database
- Basics of staging and deploying apps

Course 2: Principles of Project Management 1 Day

- Introduction to Projects
- Stakeholders
- Business Cases
- Project Planning
- Risk Management
- Project Monitoring and Change Control

Course 3: Designing Software 2 Days

- Modelling techniques for both front-end and back-end applications
- Development of entity relationship, data flow and class diagrams
- Development of wireframes, prototypes, and workflows for a software application
- Reviews and feedback from peers and stakeholders for further contribution to designs

Course 4: Implementing Software Methodologies

2 Days

- Working in an Agile Scrum methodology
- Developing applications with version control and Ci/CD practices
- Implementing automation with build pipelines

Course 5: Documenting Software – Digital Only Module

- User stories and use cases
- Documentation within the SDLC
- User and system-based documentation
- Designing manuals, guides, documentation and tool tips

Course 6: Software Testing

2 Days

- Writing module tests for developed test plans and cases (within data) in a TDD format
- Using tracking tools to monitor and work on bugs and enhancements
- Write different test types for an application, such as unit tests, integration tests, and load tests

Course 7: Digital Transformation

1 Day

- Digital transformation in businesses and the principles of business change
- Modelling business processes and formulating proposals for new digital technology solutions, cost-benefit analysis
- The legislative and regulatory requirements, organisational policies
- The safe use of digital technology equipment in the workplace
- The integration of digital technologies within business processes
- Reduce costs, enhance performance, and improve productivity and service benefits
- Ethics and the implementation of the digital transformation in businesses

Course 8: Meta Skills & Professionalism

Digital Only Module

- What are Meta Skills
- Personal Professionalism
- How People Learn
- Personal Reflection and Performance Reviews
- SMART Objective Setting
- Development Plans, Career Planning and CPD
- Feedback and Wellbeing

Optional: AI for Everyone

Introduction to Microsoft 365 Copilot – digital content – 1 hour self-paced learning

AI Literacy: Safe & compliant AI use for all staff – digital content – 2 hours self-paced learning

Upgrade your productivity with Copilot – 90-minute webinar

Hands-on Copilot ½ day session:

By the end of this course learners will be able to use Copilot to generate and refactor code in C# or Java

