

Software Developer

The Software Developer (SD) apprenticeship equips individuals with the ability to understand the business or client's requirements, as provided in design specification, and then build and test high-quality code solutions to deliver the required outcome. A Software Developer will typically work as part of a larger team with responsibility for some of the straightforward elements of a software project. In a smaller organisation, they may be working solely on a project under supervision.

This apprenticeship provides the knowledge and skills to apply to the daily role. A Software Developer apprentice will interact with internal and external parties, including users/customers, to understand their needs and test the software developed. This is done through user testing and working with team members from a range of specialist fields including designers, developers, engineers, analysts, and project/delivery managers.

Occupational Duties

Technical training is structured and mapped to employer needs. Your learning outcomes follow the practical application of this job role in the workplace. We measure your progress against a series of occupational duties. Under each of these duties, you will develop the relevant knowledge, skills and behaviours through your technical training and mentoring. At the end of the programme, you will be able to demonstrate these for your End Point Assessment (EPA).



Duty 1

Take and interpret given software development requirements to estimate effort to deliver the work product to enable accurate costs to be established.

Duty 2

Break software development activities down into logical units of work to enable sequencing and ensure the best possible structuring of activities to deliver a high quality product right first time.

Duty 3

Report progress accurately throughout the development life-cycle stages to ensure adequate audit trails of key worksteps such that the organisation can demonstrate how the product has been created for quality and commercial purposes.

Duty 4

Identify and report any impediments to software development activities and propose practical solutions.

Duty 5

Convert customer requirements into technical requirements, both functional and non-functional to ensure that customers' expectations are accurately reflected in the software products developed.

Duty 6

Identify and select the most appropriate technical solution, taking into consideration coding best practice and appropriate quality standards.

Duty 7

Communicate software development solutions to a range of internal or external stakeholders to ensure clear understanding of requirements and how they have been met or adjusted.

Duty 8

Consider security implications of proposed design to ensure that security considerations are built in from inception and throughout the development process.

Duty 9

Write logical and maintainable software solutions to meet the design and organisational coding standards (Software Development Lifecycle -Implementation and Build phase).

Duty 10

Apply security best practice to the software solution throughout the software development life-cycle.

Duty 11

Create and maintain appropriate project documentation to explain the development process and resources used.

Duty 12

Apply appropriate recovery techniques to ensure the software solution being developed is not lost (Software Development Lifecycle -Implementation and Build phase).

Duty 13

Implement appropriate change control to ensure that software development changes may be tracked and quality risks managed.

Duty 14

Undertake unit testing of solutions, with appropriate levels of test code coverage, to identify and, where necessary, resolve issues (Software Development Lifecycle -Implementation and Build phase).

Duty 15

Perform testing of the software solution to ensure a high quality output (Software Development Lifecycle -Test phase).

Duty 16

Deliver a suitably documented deployable solution to the customer for their use (Software Development Lifecycle -Deploy phase).

Duty 17

Support delivery of one or more software deployment phases, such as trials and final release, to ensure that software developer outcomes are deployed correctly.

Duty 18

Provide support during software trials and after final release to ensure that customers understand and can correctly apply the product, and risks are mitigated.

Duty 19

Respond appropriately to given Service Level Agreements (SLAs) to ensure that time and resources invested in software development activity are allocated appropriately to deliver good customer service.

Duty 20

Apply suitable 'bug fix', appropriate to the severity and priority of the software development issue identified.

Duty 21

Practice continuous self learning to keep up to date with technological developments to enhance relevant skills and take responsibility for own professional development.

Programme summary



EPA assessment



Work-based project



Portfolio-based professional discussion



Qualification awarded

Key dates

MAY
Applications close for this year's intake.

AUG
All job offers are made.

OCT
Apprentices join teams in the workplace; a programme of technical training blocks & industry events commences.



FOR THE DURATION OF THE PROGRAMME

Apprentices attend work, technical training blocks, industry events as required

Why choose an Apprenticeship?



Earn a good salary whilst you train - so no mounting debt!



Gain a nationally recognised and professional qualification



Learn and work alongside industry experts



Increase your chances of quicker professional progression



Further information about the apprenticeship standard

instituteofapprenticeships.org/



Further information about Manchester Digital Academy and how to apply for an apprenticeship

manchesterdigital.com/digital-apprenticeships/apply

Or get in touch with the apprenticeship team on apprenticeships@manchesterdigital.com

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