

Apprenticeship Standard Level 4 Software Developer – Curriculum Delivery Schedule

Boot Camp				
Week 1 – aim is to give students a basic level of coding knowledge and develop their employability skills				
Day 1	Day 2	Day 3	Day 4	Day 5
<p>Boot Camp Aims:</p> <ul style="list-style-type: none"> • College Induction • Boot Camp Introduction • Initial Assessment • Coding Introduction <p>Induction to the Sheffield College and an introduction to the Boot Camp delivery programme. An initial diagnostic assessment of each student will be undertaken to assess for any additional learning support, this will be followed by an introduction to coding to assess the prior knowledge of each student.</p>	<p>Boot Camp Aims:</p> <ul style="list-style-type: none"> • Coding Skills Development • Communication • Working in Teams • Peer Assessment <p>Students will be put into small groups of mixed coding ability and work on a coding task and develop team working skills. The students will develop skills in writing simple programs, data structures, introduction to code syntax and using input process output techniques.</p>	<p>Boot Camp Aims:</p> <ul style="list-style-type: none"> • Coding Skills Development • Communication • Working in Teams • Peer Assessment <p>Students will be put into small groups of mixed coding ability and work on a coding task and develop team working skills. The students will develop skills in writing simple programs, data structures, introduction to code syntax and using input process output techniques.</p>	<p>Boot camp Aims:</p> <ul style="list-style-type: none"> • Coding Skills Development • Communication • Working in Teams • Peer Assessment <p>Students will be put into small groups of mixed coding ability and work on a coding task and develop team working skills. This will be followed by each group peer assessing the coding task that has been completed by each group</p>	<p>Boot Camp Aims:</p> <ul style="list-style-type: none"> • Communication • Working independently • Assessment <p>Students will be given a project to assess their independent code writing understanding followed by some peer marking to consolidate learning.</p>
Week 2 – aim is to develop the students programming skills, problem solving skills and give the students the chance to work with employers on a project				
Day 1	Day 2	Day 3	Day 4	Day 5
<p>Boot Camp Aims:</p> <ul style="list-style-type: none"> • Introduction to Event Driven Programming <p>Apply Structures and syntax to develop programs using VB.NET</p>	<p>Boot Camp Aims:</p> <ul style="list-style-type: none"> • Introduction to Object Oriented Driven Programming <p>Apply structure and syntax to develop programs using JAVA and C++</p>	<p>Boot Camp Aims:</p> <ul style="list-style-type: none"> • Introduction to programming for the WEB <p>Develop skills in HTML5, Javascript and CSS</p>	<p>Boot Camp Aims:</p> <ul style="list-style-type: none"> • Develop programming skills further for the WEB <p>Introduction to PHP and SQL</p>	<p>Boot Camp Aims:</p> <ul style="list-style-type: none"> • WEB based project • Employer Engagement <p>Students will independently apply WEB coding skills to a given project and have the opportunity to work with employers</p>

Year 1 – Delivery of the knowledge unit Software Development Methodologies will be an initial two week block followed by one week blocks spaced throughout the year									
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6				
Generic Coding Workshop: The delivery of an intense coding workshop that will develop the coding skills to prepare the apprentice for their introduction to employment in the Digital Industry For Example: Visual Basic.net, C++, Java Script and PHP	Generic Coding Workshop: The delivery of an intense coding workshop that will develop the coding skills to prepare the apprentice for their introduction to employment in the Digital Industry For Example: Visual Basic.net, C++, Java Script and PHP	Learning Outcome 1: Understand the Software Development lifecycle Topics: The role and scope of software development and its relationship to other associated disciplines The importance of following a procedural/staged lifecycle	Learning Outcome 2: Understand the similarities and differences between software development methodologies Topics: Software development methodologies, applications, advantages and disadvantages Learning Outcome 3: Understand how to respond appropriately to the business environment and business issues related to software development Topics: The business environment related to software development The business environment and business issues related to software development	Learning Outcome 4: Understand why teams must work effectively to produce software Topics: Roles and responsibilities within the software development and implementation lifecycle The importance of working as an effective member of a development team	Assessment Preparation and Completion: The apprentice will have assessment support in preparation for the Software Development Methodologies Examination. The examination will take place at the end of the week after a series of revision sessions, mock examination tests and feedback.				
Throughout the year the apprentice and their mentor will have a series of support visits to develop their Portfolio of Evidence and in preparation for the End Point Assessment									
Initial Review Weeks 1 - 4	Progress Review Weeks 5 - 8	Progress Review Weeks 9 - 12	Progress Review Weeks 13 - 16	Progress Review Weeks 17 - 22	Progress Review Weeks 23 - 28	Progress Review Weeks 29 - 34	Progress Review Weeks 35 - 40	Progress Review Weeks 41 - 46	Progress Review Weeks 47 - 52

Year 2 – Delivery of the Vendor Qualification									
Week 1	Week 2	Week 3	Week 4	Week 5					
Throughout the year the apprentice and their mentor will have a series of support visits to develop their Portfolio of Evidence and in preparation for the End Point Assessment									
Progress Review Weeks 1 - 4	Progress Review Weeks 5 - 8	Progress Review Weeks 9 -12	Progress Review Weeks 13 - 16	Progress Review Weeks 17 - 22	Progress Review Weeks 23 - 28	Progress Review Weeks 29 - 34	Progress Review Weeks 35 - 40	Progress Review Weeks 41 - 46	Progress Review Weeks 47 - 52

End Point Assessment								
Health and Safety Induction	Evidence Portfolio	Project	Employer Reference	Technical Interview	Assessment Organisation Moderation	Assessment of Grading Criteria	Final Grade Decision	Professional Body Recognition
External Assessor has completed all necessary H&S site inductions and training	The apprentice must complete an Evidence Portfolio within the duration of their training that consistently demonstrates how they have met the knowledge, skills and behaviours set out in the Standard	The Apprentice will need to complete a standardised scenario based project that is required to be business related, but must be completed over a one week period away from the day to day workplace	Provides the employers perspective on how the apprentice has performed in the workplace and how they have applied their knowledge, competencies and behaviours	An independent technical expert will conduct an interview with the apprentice and is based on their evidence portfolio. It will provide further validation and accuracy to the assessment of their knowledge, competency and behaviour	Assessment organisations will undertake a moderation procedure of independent examination of the technical expert decision on a risk sampling basis. The EQA is managed by the Tech Partnership and OFQUAL	Pass: all elements must meet the minimum requirement for quality Merit: part of the elements within the Standard are assessed as significantly above the level of quality expected Distinction: All elements within the Standard are assessed as significantly above the level of quality expected	An independent External Assessor will combine all moderated grades to determine the overall apprenticeship grade in line with the grading criteria provided in the EPA Plan	The Register of IT Technicians provides independent recognition of achieving the Standard. A place on the register provides recognition of their competency in applying technical skills in a business environment, whilst signing up to a professional code of conduct
Progress Review 1 Weeks 1 - 3		Progress Review 2 Weeks 4 - 6			Progress Review 3 Weeks 7 - 9		Progress Review 4 Weeks 10 - 12	

More information

To find out more about the opportunities and financing of apprenticeships and to discuss your particular requirements, please email employer@sheffcol.ac.uk or call 0114 260 2600 to speak to one of our friendly employer advisors.

Why choose The Sheffield College?

As one of the region's largest providers of apprenticeships, The Sheffield College is more than just your local provider; we deliver the dedicated support you need to source, train and get the best out of your apprentice. We appreciate how difficult and time consuming it can be to recruit staff. That's why, when you recruit an apprentice with us, our dedicated apprenticeship recruitment service, Job Connect, will advertise the vacancy, engage your candidates and even pre-screen them to make the process as easy as possible for you.

We help you get the best deal by finding the right funding and we handle the paperwork to make the process of arranging an apprenticeship training programme as smooth as possible. Our employer partnership team, apprenticeship tutors and assessment staff are experts, and we invest time and money in training and upskilling them regularly so their knowledge is up-to-date and industry standard.