



Code Academy Back End Group Schedule of Events 2025

Benefits of the programme:

Industry-Recognised Qualification: The Level 3 Certificate in Software Development has been developed by Agored Cymru in conjunction with leading organisations in the IT sector to provide the foundational practical skills in planning, developing, testing and documenting software.

Practical and Relevant Curriculum: Our carefully crafted curriculum focuses on the core knowledge and skills required by a software developer and is regularly updated to ensure you develop the skills industry values.

Core Curriculum: Professional standards and ethics, Database principles, SQL, intro to HTML and CSS, PYTHON coding, User experience and user interface design.

Extended Curriculum: Providing the wider skills that help software developers thrive in a fast paced and constantly evolving industry. Agile project management, Azure fundamentals of cloud computing, communication and team skills

Experienced Tutors: Learn from industry experts and seasoned IT professionals who bring real-world insights into the classroom. Benefit from their extensive knowledge and practical experience, enabling you to gain valuable perspectives and learn best practices.

Networking Opportunities: Connect with organisations in the FinTech sector and learn about the employment opportunities and career development pathways they offer.

Practical Application: Demonstrate your skills by building a FinTech related software project from a design brief to a fully tested and documented software product.

The Code Academy consists of:

- The Agored Cymru Level 3 Certificate in Software Development
- Wider Developer Skills
- CompTIA (Agile) project management
- Soft Skills for Employability
- FinTech Employer Engagement

Course Delivery:

- Delivered over 11 intensive weeks.
- Induction sessions for students, fully explaining the program and the assessment process.
- 18x Full day software developer skills and knowledge workshops.
- 4x CompTIA (Agile) Project Management sessions.
- Exam prep and Online Exam Day.
- 6x Full day ALS advisor software project support sessions.
- 2x Soft skills for employment sessions.
- 3x Self-study and pastoral support sessions.
- 2x CAVC CV and Interview skill sessions.
- 2x FinTech employer engagement sessions.

Requirements

In order to meet the requirements of the Code Academy please see below a list of software, including links which you are able to download that you must have access to in order to enable a successful learning experience. Please check your laptop to ensure that the minimum requirements to run the software are achievable [Intel i3 - 3.40Ghz or better and at least 8GB of ram or AMD Ryzen 5 - 3.2Ghz or better and at least 8GB of ram].

Software:

Full access to the following standard software's/websites:

- **Microsoft Teams**
- **A Web Browser** (*Edge, Chrome, Safari, Firefox etc.*)
- **Microsoft Office/Office 365**
- **OneDrive**

Full access to the following bespoke software's and all of the libraries:

- **Anaconda** (1 Download)
- **Sublime Text (1 Download)**
- **Microsoft SQL Server Management Studio** (2 Downloads)
- **Anvil** (1 Download)

Links:

<https://www.anaconda.com/products/distribution>

<https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-managementstudio-ssms?view=sql-server-ver16>

<https://www.microsoft.com/en-gb/sql-server/sql-server-downloads>

<https://www.sublimetext.com/>

<https://anvil.works/>

If there are any concerns regarding accessing the software above please speak with your ALS tutor and/or CAVC liaison who will be able to support you with an alternative solution.

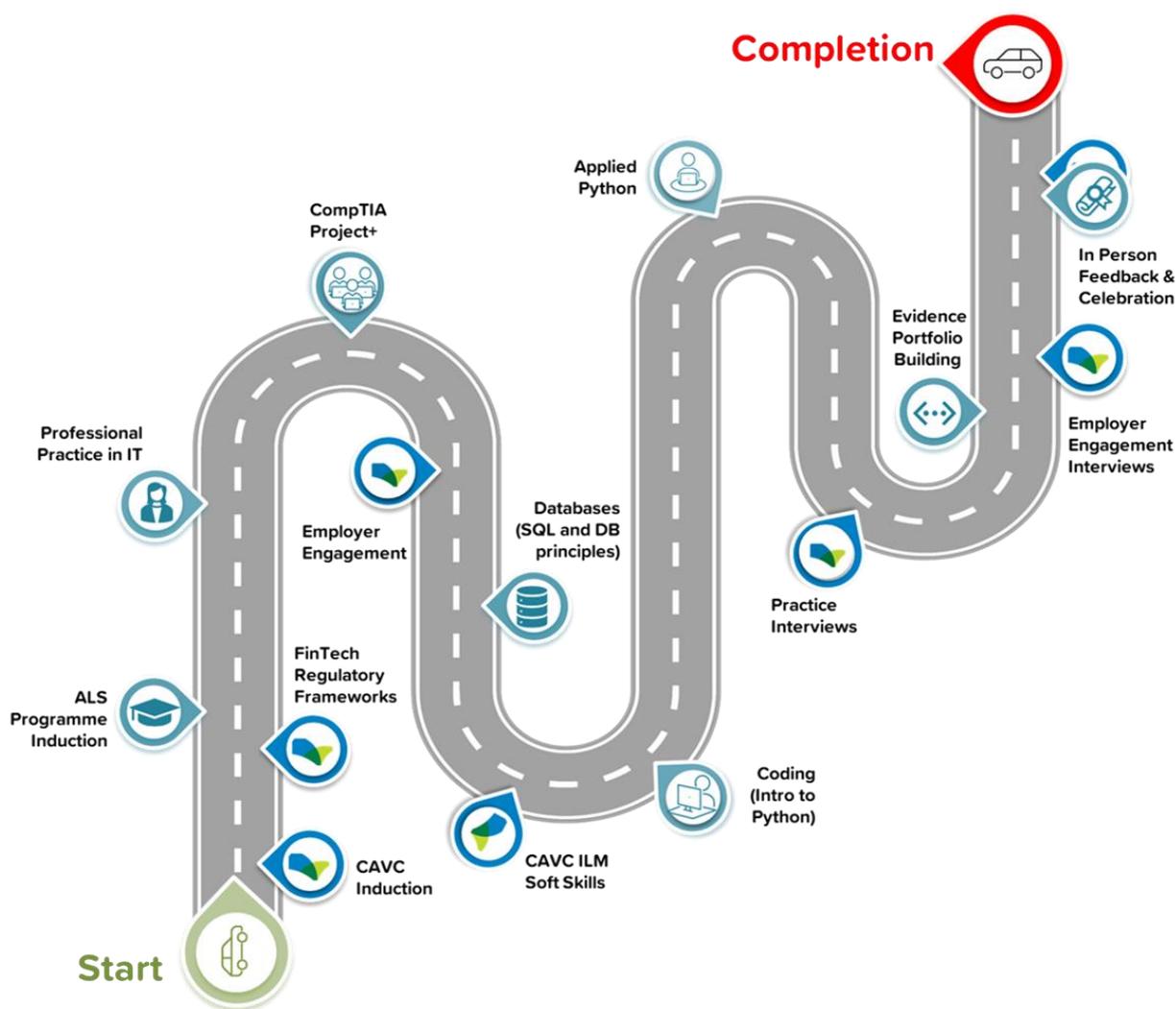
Qualification overview for the Agored Cymru Level 3 Certificate in Software Development

Learners must achieve at least 23 credits to gain the qualification.

To do this they must achieve all units below.

Evidenced Units

Title	Level	Credit
Professional Practice in an IT Context	Three	6
Coding	Three	10
Database Applications	Three	8



Full Programme and Schedule

Date	Session	Delivery Partner & Location
<p>28/4/25 9:30 – 4:00</p>	<p>CAVC Induction and DiSC Workshop Welcome to the College and an introduction to the support services provided to assist your journey through the code academy. Meet your CAVC liaison and discuss pastoral care arrangements.</p> <p>Workshop exploring your DiSC personality profile and how you can leverage DiSC to your career advantage.</p>	<p>CAVC Tutors ALS Training</p> <p><i>College</i></p>
<p>29/4/25 9:30 – 4:00</p>	<p>FinTech Regulatory Framework An exploration of the legal framework that relates to financial organisations and how the work of a software developer is impacted.</p>	<p>CAVC</p> <p><i>College</i></p>
<p>30/4/25 9:30 – 4:00</p>	<p>Programme Induction Welcome to the programme, meet the tutors, explanation of the programme elements. Introduction to the L3 Certificate in Software Development and the OneFile e-portfolio assessment platform.</p> <p>Help installing software and checking equipment requirements.</p>	<p>ALS Training</p> <p><i>Ocean Park House</i></p>
<p>1/5/25 9:30 – 4:00</p>	<p>Professional Practice Day 1 What does it mean to be a professional in the IT industry? What standards are required? What are the professional bodies that exist to support you? What role do they play?</p>	<p>ALS Training</p> <p><i>Ocean Park House</i></p>
<p>6/5/25 9:30 – 4:00</p>	<p>Professional Practice Day 2 Understanding the importance of quality measures to IT professionals. Exploring the quality management systems that are commonly used along with the quality standards (internal and external) that govern software development activities.</p>	<p>ALS Training</p> <p><i>Ocean Park House</i></p>

<p>7/5/25 9:30 – 4:00</p>	<p>Professional Practice Day 3 Legal and ethical standards for IT professionals. Exploration of the laws that govern IT professionals' activities, the ethical dilemmas and conflicts of interest that may be faced by an IT professional and how to address problems.</p>	<p>ALS Training <i>Ocean Park House</i></p>
<p>8/5/25 9:30 – 4:00</p>	<p>Assignment writing and portfolio building Time to work on your assignments for the professional practice unit with support from your ALS tutor. knowledge employers value.</p>	<p>ALS Training <i>Ocean Park House</i></p>
<p>12/5/25 9:30 – 4:00</p>	<p>Self-Study and Pastoral Care A chance to consolidate what you have learned so far, to work on any assessments, revise for exams or spend time in the CAVC library furthering your knowledge of the Academy topics. Appointments can be made with your CAVC liaison to help solve problems and overcome barriers to your progress.</p>	<p>Self-Study <i>College</i></p>
<p>13/5/25 9:30 – 4:00</p>	<p>CompTIA (Agile) Project+ Day 1 Learn how software projects are managed across the IT sector and the tools and techniques of Agile project management.</p>	<p>ALS Training <i>Ocean Park House</i></p>
<p>14/5/25 9:30 – 4:00</p>	<p>CompTIA (Agile) Project+ Day 2 Learn how software projects are managed across the IT sector and the tools and techniques of Agile project management.</p>	<p>ALS Training <i>Ocean Park House</i></p>
<p>15/5/25 9:30 – 4:00</p>	<p>CompTIA (Agile) Project+ Day 3 Continue learning about Agile project management and how the approach is applied to software projects in the fast-paced commercial development arena.</p>	<p>ALS Training <i>Ocean Park House</i></p>
<p>19/5/25 9:30 – 4:00</p>	<p>FinTech Employer Engagement Day and Careers Day Meet the Employers partnering with the event, learn about the development careers available within the FinTech sector and find out about the skills and</p>	<p>CAVC <i>College</i></p>

20/5/25 9:30 – 4:00	CompTIA (Agile) Project+ Day 4 Continue learning about Agile project management and how the approach is applied to software projects in the fast-paced commercial development arena.	ALS Training <i>Ocean Park House</i>
21/5/25 9:30 – 4:00	CompTIA (Agile) Project+ Revision and Exam Review of the material from your Agile project management course in preparation to sit the exam in the afternoon.	ALS Training <i>Ocean Park House</i>
22/5/25 9:30 – 4:00	Databases (SQL and principles) Day 1 The principles of data storage and databases. Structures, data types, records, tables and relationships.	ALS Training <i>Ocean Park House</i>
26/5/25	<i>Spring Bank Holiday</i>	
27/5/25 9:30 – 4:00	Databases (SQL and principles) Day 2 Data models, planning and creating databases, simple queries and an introduction to Structured Query Language (SQL)	ALS Training <i>Ocean Park House</i>
28/5/25 9:30 – 4:00	Databases (SQL and principles) Day 3 Working with SQL, building queries to add data to a database, change data and when needed remove data.	ALS Training <i>Ocean Park House</i>
2/6/25 9:30 – 4:00	CAVC Soft Skills Day 1 – Communication and Emotional Intelligence Exploring the communication skills needed by professionals to engage with colleagues and communicate effectively, in writing and verbally. Understanding the value of empathy and emotional self-awareness to building working relationships.	CAVC <i>College</i>
3/6/25 9:30 – 4:00	Coding Day 1 An introduction to coding, high- and low-level languages, programming approaches and the software development cycle. Using Flowcharts and Pseudocode to design programs.	ALS Training <i>Ocean Park House</i>

4/6/25 9:30 – 4:00	Coding Day 2 Introduction to Anaconda and the PYTHON Language Coding with Python, variables, simple data structures and mathematical operations.	ALS Training <i>Ocean Park House</i>
5/6/25 9:30 – 4:00	Coding Day 3 Inputting and outputting information. Loops and iterations. conditional statements.	ALS Training <i>Ocean Park House</i>
9/6/25 9:30 – 4:00	CAVC Soft Skills Day 2 – Team Member Skills, Handling Conflict and Stress The skills needed to be an effective team member and to deal with difficult situations and to manage your own personal wellbeing.	CAVC <i>College</i>
10/6/25 9:30 – 4:00	Coding Day 4 Complex data structures, user interactions, Boolean logic and branching.	ALS Training <i>Ocean Park House</i>
11/6/25 9:30 – 4:00	Coding Day 5 Exploring functions, building functions, calling functions and passing parameters to a function.	ALS Training <i>Ocean Park House</i>
12/6/25 9:30 – 4:00	Coding Day 6 An Introduction to Python libraries and interacting with other software and coding languages.	ALS Training <i>Ocean Park House</i>
16/6/25 9:30 – 4:00	CAVC CV Writing and Interview Skills Assistance with the preparation and writing of effective CVs in application for a vacant role and an exploration of the interview techniques that will help to provide the best impression to prospective employers.	CAVC <i>College</i>
17/6/25 9:30 – 4:00	Building Back End Interfaces with Tkinter and Anvil Introduction to Tkinter and Anvil for accelerated user interface development leveraging Python.	ALS Training <i>Ocean Park House</i>
18/6/25 9:30 – 4:00	Software Testing Software testing and debugging	ALS Training <i>Ocean Park House</i>

<p>19/6/25 9:30 – 4:00</p>	<p>Self-Study and Pastoral Care A chance to consolidate what you have learned so far, to work on any assessments, revise for exams or spend time in the CAVC library furthering your knowledge of the Academy topics.</p> <p>Appointments can be made with your CAVC liaison to help solve problems and overcome barriers to your progress.</p>	<p>Self-Study <i>College</i></p>
<p>23/6/25 9:30 – 4:00</p>	<p>FinTech Employer Engagement Practice Interviews A A chance to practice your interview technique in a supportive environment with CAVC staff who will be able to provide feedback and tips to help you perfect your interview technique.</p>	<p>CAVC <i>College</i></p>
<p>24/6/25 9:30 – 4:00</p>	<p>Applied Python Day 1 Extending the functionality of Python with libraries and using advanced manipulations of data.</p>	<p>ALS Training <i>Ocean Park House</i></p>
<p>25/6/25 9:30 – 4:00</p>	<p>Applied Python Day 2 Practice in using Python to solve defined problems and develop algorithms to guide software design. Use of code libraries (such as GitHub)</p>	<p>ALS Training <i>Ocean Park House</i></p>
<p>26/6/25 9:30 – 4:00</p>	<p>Evidence Gathering and Portfolio Building Work collaboratively with your tutor and produce the individualised evidence for your software development qualification with the support of your ALS tutor</p>	<p>ALS Training <i>Ocean Park House</i></p>
<p>30/6/25 9:30 – 4:00</p>	<p>FinTech Employer Engagement – Interviews Day A A chance to meet with FinTech Employers one to one and showcase who you are and what you have learned during the programme.</p>	<p>CAVC <i>College</i></p>
<p>1/7/25 9:30 – 4:00</p>	<p>Resit Day for the CompTIA Project+ Exam if required or Evidence Gathering and Portfolio Building Work collaboratively with your tutor and produce the individualised evidence for your software development qualification with the support of your ALS tutor</p>	<p>ALS Training <i>Ocean Park House</i></p>

<p>2/7/25 9:30 - 4:00</p>	<p>Finalise Evidence and Sign Off Level 3 Certificate in Software Development A final day with your ALS tutor to review the evidence produced for the qualification, to fill any gaps and to sign off the completed qualification</p>	<p>ALS Training <i>Ocean Park House</i></p>
<p>3/7/25 9:30 - 4:00</p>	<p>In Person Feedback, Graduation and Celebration A review of the journey you have taken and a celebration of all you have achieved</p>	<p>CAVC, ALS, FinTech <i>College</i></p>