LEVEL 3 SOFTWARE DEVELOPMENT

Subject Area	Digital & IT
Student Type	Adults
Study Mode	Part Time

What is the course about?

Throughout the duration of this course, students will be exposed to the core principles of computer programming, fostering a deep comprehension of the mechanics behind programming. As they progress, they will acquire the necessary skills in text-based programming, equipping them to envision, create, and implement their own computer programs.

Why should I choose the course?

This 20-week accredited blended learning program serves as a natural progression beyond the Level 2 programming course. Upon successful completion, participants will attain a Level 3 accreditation recognised by the industry, positioning them favourably for enrolment in advanced programming courses or a transition into the digital job market.

While it is ideal for individuals to have previously completed a Level 2 qualification, this course does not have strict prerequisites in terms of prior qualifications, skills, knowledge, or understanding. Nevertheless, learners are expected to demonstrate the requisite skills and capabilities to engage with Level 3 material effectively. A foundation in English and Math at Level 2 is beneficial for a successful educational journey.

The program's blended learning approach entails 6 hours of in-person instruction at the college each week, complemented by a mandatory commitment of 2 hours per week for independent study, (unsupervised learning off-site). This format provides flexibility and accommodates learners' various schedules and commitments.

What will I learn?

The course consists of 5 UNITS TO BE COVERED:

1. Project Management.

You will understand project management concepts and the processes and tools used by organisations to manage IT projects. They will learn about project management methodologies and use project management software to plan an IT project, track progress, and review the outcomes to determine project success.

2. JavaScript

You will develop an understanding of JavaScript as a text-based programming language to create interactive elements on web pages.

3. Programming Implementation

You will become familiar with the underpinning concepts of programming and how it is implemented.

4. Robot technology

You will develop an understanding of the principles and operations of robots. They will learn about robot control systems, the different types of sensors and their application in a robot. Learners will also develop the skills to design and develop a program to control a robot and will understand the role and importance of legislation associated with robot technology.

5. Software Testing

You will develop an understanding of testing strategies and techniques and the stages from planning to acceptance testing. They will also understand how automation can be applied to software testing and will implement test plans, identify appropriate test data and record results.

What will the course lead on to?

This course prepares you for progression across a wide range of courses including:

- HND Computing (HTQ)
- Employment; In 2022, the Information and Communication sector employed approximately 19,000 individuals in Cheshire and Warrington, underscoring the potential for job prospects in this industry.

What support is available?

We have a team of staff dedicated to providing learning support if required, as well as a Welfare Team that is on hand to offer guidance, support and help when needed. Additionally, eligible students can access a wide range of finance and funding support to help them during their time at college.

Click here for learning support: https://wvr.ac.uk/college-life/learning-support

Click here for finance support: https://wvr.ac.uk/college-life/financial-support

Why should I choose to study the course at Warrington & Vale Royal College?

The course is based within our brand new Advanced Creative and Digital Skills Academy providing you with access to all of the latest digital technologies. We have highly experienced staff to support you to develop the essential digital skills so that you can flourish in future progression opportunities.

Although there are no exams, you will be expected to create a portfolio of work that the students may need to complete work outside of the classroom.

What are the entry requirements?

You will need to hold a Level 2 qualifiaction in Computer Programming or have prior knowledge suitable at the level required for the course.

Are there any additional costs associated with the course?

You must have access to a personal computer and will need broadband access with a reliable connection in order to complete the mandatory remote learning

Guidance on the latest version of relevant software will be provided by your course leader.