London Borough of Hounslow

LEARNHOUNSLOW

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www.hace.ac.uk

Computer Programming Level 2

About the course

The objective of this qualification course is to help you understand the key features of programming languages and how programming environments simplify the development process. You will develop text-based programming skills with Python.

You will gain an understanding of the stages of the software development cycle to help you design a programme to a customer's specification. You will test and review the programme against the client's requirements, suggest or make improvements and create a user guide.

At the end of the course, you will have created a portfolio of evidence which will be assessed to obtain the qualification.

Learning Outcomes

By the end of the course, you will be able to:

- Describe the key features of programming
- Explain how programming environments simplify the development process
- Design a program in response to a client brief
- Develop a program using a text-based programming language (Python) using appropriate algorithm, code and syntax.
- Test, refine, document and review the program you develop against the client's brief.

Please note: To successfully complete this course you must commit to 100% attendance and punctuality.
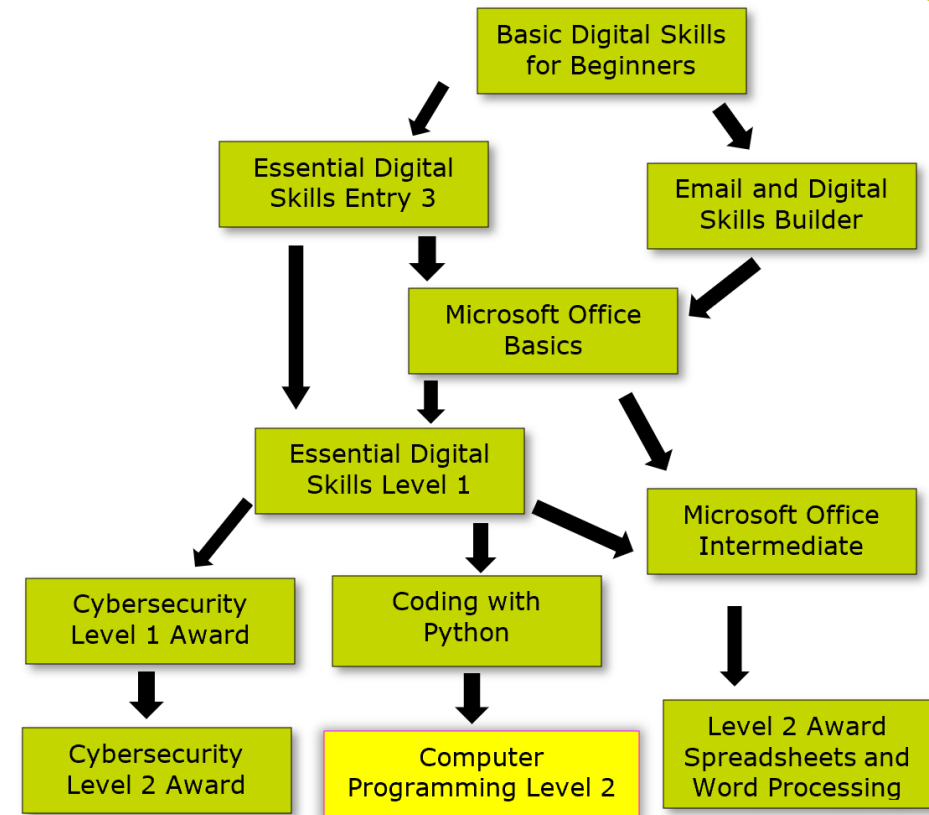
You are committing to 2 x 2hr lessons a week for 12 weeks.

What is needed for the course?

- Completion of Initial Assessment prior to starting the course
- It is desirable also to have completed the Coding with Python course prior to starting this course **or** have some knowledge of Python and programming processes – we can help with this before the course starts if you have not completed the Coding with Python course.

If you need any additional support, please call us.

Progression Pathways

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Basic Digital Skills for Beginners
   ├──► Essential Digital Skills Entry 3
   └──► Email and Digital Skills Builder
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Essential Digital Skills Entry 3 ──► Microsoft Office Basics
Email and Digital Skills Builder ──► Microsoft Office Basics

Essential Digital Skills Entry 3 ──► Essential Digital Skills Level 1
Microsoft Office Basics ──► Essential Digital Skills Level 1 / Microsoft Office Intermediate

Essential Digital Skills Level 1
   ├──► Cybersecurity Level 1 Award
   └──► Coding with Python
   └──► Microsoft Office Intermediate

Cybersecurity Level 1 Award ──► Cybersecurity Level 2 Award
Coding with Python ──► Computer Programming Level 2
Microsoft Office Intermediate ──► Level 2 Award Spreadsheets and Word Processing
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We can also provide you with information, advice and guidance for employment or further learning.

- Please speak with your tutor or
- Call 020 8583 6174 to speak to an advisor or
- Email work@hounslow.gov.uk or
- Visit www.workhounslow.co.uk

WORKHOUNSLOW