

COURSE TITLE: Computer Programming – L2 Award

About the course

The objective of this 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 and Python Charm.

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.

This is a 12 week course – 4 hours once a week on Fridays (9.30 – 11.30 & 12.30 – 14.30). You must attend the full day sessions every week.

What will I learn?

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.
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What are the entry requirements?

- You will successfully complete an Initial Assessment or have successfully completed the Introduction to Programming, Level 1 Award course.

In addition you should:

- Know how to use a Word processing application to produce a portfolio of your work.
- Know how to organise and save files in folders.
- Know how to use the Internet for research and study.
- Have a good level of reading and written English.
- Have passed Essential Digital Skills Level 1 (desirable).
- **Maths skills:** ability to work with angles and coordinates. This will be assessed

What do I need to bring with me?

- You may wish to bring a notepad and a pen to take notes.
- You may bring your own laptop if you wish; however, all devices you will need are available for you to use at our centre during lesson time.

How will my learning be assessed?

This is an accredited course. You will be assessed through a portfolio of evidence, which includes a project to design and code a computer programme to the specifications of a client. You will receive an award on the successful completion of all assignments that should be organised in a digital portfolio, ready to present to the awarding body.

Your tutor will give you regular verbal and written feedback to support your progression. You will submit your course work and track your learning in Google Classroom. You will participate in group discussions and receive guidance.

To successfully complete the course your attendance should be a minimum of 85% and course work should be completed by the end of the course. **Please note that the first session is an induction to the course and the centre, therefore it is essential that you attend.** If you for any reason are unable to attend, please let us know and ensure that you read through the induction slides located in your Google Classroom and complete any related tasks.

What can I do after completing this course?

- At the end of the course your tutor will advise you on your possible next steps.
- You can call us to find out about upcoming courses on 020 8583 6000

What will happen if a session is cancelled?

During the COVID19 pandemic we aim to be flexible and to continue to deliver learning in a safe and inclusive environment, whether this is online or in a physical classroom. If you are isolating and are unable to come to class, speak to your tutor or with one of our staff members and we will do our best to find an alternative solution.

Information, advice and guidance for employment

- Call 020 8583 6174 to speak to an advisor
- Email work@hounslow.gov.uk
- Visit <http://www.hace.ac.uk/employment-support>