

Programming Fundamentals Diploma



This diploma offers an excellent opportunity to learn about computer programming through introductory courses in some of the different programming languages such as **HTML, CSS, Python, Java** and **JavaScript**.



If you are new to the world of coding and computer programming and are keen to pursue a career in this field, this online programming training course will help you learn how to use various programming and development tools to build apps, power websites and more!

If you have an analytical mind, problem solving skills and a passion for all things digital, this might be a rewarding career choice.

Smartphones, laptops, PCs, websites and video games all run digitally scripted programs and, as the digital revolution continues, the reach of computer programming has been so significant we now see it playing a part in other frequently used items such as cars, household appliances and watches.

With such a widespread growth in the demand for programming there is a demand for knowledgeable, qualified programmers who can not only write software programs but test, develop and maintain them as well.

If you're new to computer programming the prospect of learning how to write a digital script from scratch could be a daunting prospect. This diploma is designed for those completely new to this profession. There are six core courses that you will study that will introduce you to programming concepts and then guide you through the different languages such as HTML, CSS, Python, Java and JavaScript. You will then select one additional elective course to complement the core training and that suits your personal aspirations and requirements.

It's a really flexible diploma to study and you can access the training online, at a time and place that suits you. You could study at home, work or in any of our local training centres.

Our teams will be on hand throughout your programme to provide assistance as and when you need it.

Aims and Objectives

This diploma will help those new to coding and programming learn how to write the instructions and processes that computer programs need to follow through programming languages such as Java, JavaScript, HTML, Python and CSS.

Pre-Requisites

There are no pre-requisites for this diploma.

Career Path

Undertaking professional programming training could lead to an exciting and rewarding career. If you're new to the profession you will more than likely start at Junior Programmer, Junior Coder or Entry level Software Engineer roles.

As you gain experience and with additional study your options will grow and could ultimately lead to careers such as Python Developer, Software Developer, Game Developer and Senior Developer.



CPD Points 240

(Awarded CPD points upon successful completion).

Core Courses

Introduction to Programming Concepts

This is an introduction to basic programming concepts and is perfect for those who want to learn how to program, but don't know where to start. Rather than focusing on a single programming language, this course will teach prospective programmers three basic principles: introduction to objects, program design basics, and coding basics.

MTA Introduction to Programming using HTML and CSS

The Introduction to Programming Using HTML and CSS (98-383) course is an excellent course for those looking to gain employability skills in the area of web development. The material covers the objectives on the MTA 98-383 exam, putting a solid entry-level certification well within reach. Specifically, the course has two distinct parts - HTML (Hypertext Markup Language), which includes HTML fundamentals, document structuring, and multimedia presentation, and CSS (Cascading Style Sheets), which includes CSS fundamentals and styling webpages.

MTA Introduction to Programming using JavaScript

Topics in this course include: learning about JavaScript operators, keywords, and methods, using variables, data types, and functions, implementing decisions and loops, interacting with the DOM (Document Object Model), and interacting with forms. In all of these topics, students will clearly see how JavaScript is used to enhance existing webpages. Furthermore, this course will help anyone looking to improve their employability prospects in the areas of designing and building webpages.

MTA Introduction to Programming using Java

This course is designed to enable students with little or no programming experience to begin to learn programming using the Java programming language. The course teaches the significance of object-oriented programming, the keywords and constructs of the Java programming language, and the steps required to create simple Java technology programs.

MTA Introduction to Programming Using Python

An introduction to this versatile programming language which can be used to power websites, build games, and even program hardware. This course covers data types and operators, decisions and loops, input and output, code documentation and structure, troubleshooting, and modules and tools. This course is also an excellent course for someone new to programming, as many of the topics covered are basic programming topics which carry over well to other programming languages.

MTA HTML5 Application Development Fundamentals

This course gives students a strong introduction to HTML5, which consists of three major areas: Hypertext Markup Language (HTML), Cascading Style Sheets (CSS3), and JavaScript. In addition, this course covers the application life cycle, which is important for web developers to know in order to best plan, design, code, test, validate, and deploy HTML5 apps.

Elective courses (choose one)

- **Linux+ Part 1**
- **Project Management Fundamentals**

(Alternative subjects may be chosen if more suitable to your existing skills and career.)

To discuss your current skills and aspirations call now:

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Guideline Learning Time

240 hours flexi study or 9 weeks full-time
(Full-time based on approx 20-30 hours a week)