

## General Enquiries

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## Introduction to Programming with Java

Location	Stockport College
Course Type	Adult
Department	Computing
Start Date	Tuesday 28th January 2025
Duration	Full-time, 12 Weeks
Time	17:30 - 19:30
Fee	£ 75.00 You may be eligible for support with your tuition fees - please visit the college website - funding and finance page for further information
Course Code	SPQ-CPXZ-1001

## Course Overview

Java is one of the top five programming languages used in the industry and is used for websites, embedded controllers, and Android app development. Interested in learning how to program with Java? Join Trafford College group as we help you get up and running with this popular language.

This course covers all the basics: data types, strings, functions, and loops. We help you control the flow and logic of your code and debug your project to make sure it runs perfectly. Along the way, the course provides real-world examples and introduces challenges that allow you to practice new skills. This course is perfect for developers who need to get up to speed with Java fast, as well as for beginning programmers who want their first taste of this popular language.

## Course Requirements

Participants are not required to possess any previous knowledge or expertise. We welcome individuals with a genuine enthusiasm for the subject and a willingness to actively engage and contribute.

## What You Will Learn

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Content:

1. Introduction
2. Getting started with java
3. Java Foundations
4. Control Flow
5. Debugging in Java
6. Testing
7. Function in Java
8. Classes in Java
9. Graphical Interfaces
10. Technical Documentation

## Assessment

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There are no formal methods of assessment on this course, but students will receive feedback on their progress and support during the sessions.

## Progression

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Upon successful completion students may progress to the Intermediate Programming with Java.

## Career Options

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Completing an Introduction to Programming with Java" course can open up various career options, especially if you build on the foundational knowledge and skills you gained during the course. Here are some potential career paths and roles you can consider:

**Junior Java Developer:** With a strong grasp of the fundamentals, you can start your career as a junior Java developer. You'll work on developing Java applications, debugging code, and collaborating with more experienced developers.

**Software Developer:** Expanding your programming skills beyond Java and learning other programming languages can qualify you for general software development roles. You might work with a wide range of technologies, depending on the specific job.

**Web Developer:** If you learn web development technologies such as HTML, CSS, and JavaScript in addition to Java, you can pursue a career as a web developer. Java is commonly used on the server-side for web applications.

**Mobile App Developer:** If you're interested in mobile app development, you can explore Android app development using Java. This involves creating applications for Android devices.

**Quality Assurance (QA) Tester:** Understanding Java can be valuable in a QA role, where you'll test software for bugs, errors, and functionality. Knowledge of programming is essential for writing test scripts and automated testing.

**IT Support or Helpdesk:** If you're more inclined toward the IT side of technology, you can consider IT support or helpdesk positions. Your programming knowledge can help troubleshoot software-related issues.

**Data Analyst:** Java skills, combined with data analysis and visualisation tools, can lead to a career as a data analyst. You can work with data to derive insights and make data-driven decisions.

**Technical Writer:** If you have strong communication skills, you can become a technical writer, creating documentation, manuals, and tutorials related to Java or software development.

**System Administrator:** While not directly related to Java, a system administrator's role can benefit from programming skills for automation and scripting tasks.

**Cybersecurity Analyst:** A background in programming can be valuable in the field of cybersecurity. You can help identify and address vulnerabilities in software and systems.

**Entrepreneur:** If you have a great idea for a software application or project, your programming skills can help you become an entrepreneur and develop your own software solutions.

To make the most of your career opportunities, it's important to continue learning and expanding your

skills. Consider pursuing further education or certifications, working on personal projects, contributing to open-source projects, and networking within the technology industry to increase your chances of finding the career path that best suits your interests and goals."

## **Mandatory Units**

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There are no mandatory units

## **Contact Details**

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For further information please contact T: 0161 886 7070 or E: [info@trafford.ac.uk](mailto:info@trafford.ac.uk)

## **Disclaimer**

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Although every care has been taken to ensure that the information contained within this document is accurate, there may be changes to this programme and provision. We will endeavour to keep prospective and current students updated where appropriate and when the information becomes available.