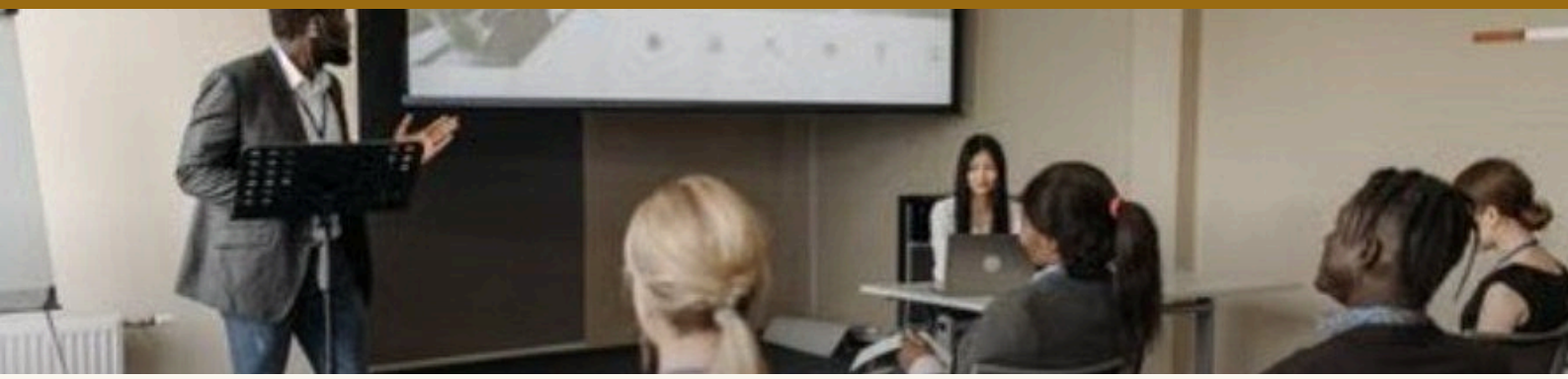


SEYA CAPITAL
INSIGHT.STRATEGY.GROWTH

INFORMATION & COMMUNICATION TECHNOLOGY

Java Programming and Application Development Professional Certificate Programme

Building Modern Software Applications with Java, Object-Oriented Programming & Enterprise Development

SECTOR	FORMATS	FEE FROM	2027 SESSIONS
Information & Communication Technology	5 days & 2 weeks	US$ 2,100	3

OVERVIEW

About this course

Java remains one of the world's most widely used programming languages, powering enterprise applications, financial systems, web applications, mobile platforms, cloud services, and mission-critical business solutions. Its platform independence, security, scalability, and robustness make Java a preferred technology for developing modern software systems across industries.

The Seya Capital Java Programming and Application Development Professional Certificate Programme equips participants with the knowledge, methodologies, tools, and practical skills required to design, develop, test, deploy, and maintain Java-based applications. The programme covers Java fundamentals, object-oriented programming, database connectivity, web application development, software engineering principles, application security, and enterprise application development.

Participants will gain hands-on experience developing Java applications while mastering industry best practices for software development and application lifecycle management.

2027 SCHEDULE

Dates, venues & fees

DATES	VENUE	FORMAT	FEE PER DELEGATE
22 – 26 Feb 2027	Singapore	5 days	**US$ 3,700**
1 – 12 Mar 2027	Dar es Salaam, Tanzania	2 weeks	**US$ 3,780**
8 – 12 Mar 2027	Dar es Salaam, Tanzania	5 days	**US$ 2,100**

Fees exclude travel and accommodation. This course is also available in-house, on dates and at a venue of your choice.

HIGHLIGHTS

What you will learn

- Java programming fundamentals
- Object-Oriented Programming (OOP) principles
- Java application development methodologies
- Data structures and algorithms
- Exception handling and debugging techniques
- Database programming with JDBC
- Java GUI development
- Web application development fundamentals
- Java enterprise application concepts
- Application security and secure coding practices
- Software testing and quality assurance
- Modern Java frameworks and development tools
- Participants will explore practical applications including:
- Java Console Application Development
- Object-Oriented System Design
- Business Process Automation Applications
- Database-Driven Application Development
- File Processing and Data Management
- GUI Application Design
- Customer Management Systems
- Inventory and Asset Tracking Systems
- Financial and Operational Applications
- Web-Based Application Development
- Application Testing and Quality Assurance
- Enterprise Software Development Projects

OBJECTIVES

By the end of the course

By the end of this programme, participants will be able to:

- Understand Java programming concepts and syntax.
- Develop object-oriented software applications using Java.
- Design, code, test, and deploy Java applications.
- Apply software engineering principles and best practices.
- Implement data structures and algorithms in Java.
- Connect Java applications to databases using JDBC.
- Develop user-friendly graphical applications.

- Build foundational web-based Java applications.
- Apply secure coding and application security principles.
- Support enterprise application development initiatives.

WHO SHOULD ATTEND

Designed for

Software Developers | Junior and Aspiring Programmers | Application Developers | Systems Developers | ICT Professionals | Computer Science Graduates | Information Systems Professionals | Business Application Developers | Database Developers | Technology Consultants | Web Developers | IT Support and Technical Professionals | STEM Graduates | Individuals pursuing careers in software development

PROGRAMME

Course outline

Day 1: Java Programming Fundamentals

- Introduction to Java Programming
- Java Development Environment Setup
- Java Syntax and Structure
- Variables, Data Types and Operators
- Control Structures and Decision Making
- Loops and Iteration
- Input and Output Operations

Day 2: Object-Oriented Programming with Java

- Principles of Object-Oriented Programming
- Classes and Objects
- Constructors and Methods
- Encapsulation, Inheritance and Polymorphism
- Abstraction and Interfaces
- Packages and Modular Development
- Object-Oriented Design Best Practices

Day 3: Data Structures, Exception Handling and Database Connectivity

- Arrays and Collections Framework
- Lists, Sets and Maps
- Exception Handling Concepts
- Debugging Techniques
- File Management Operations
- JDBC Database Connectivity
- Database Queries and Transactions

Day 4: GUI and Application Development

- Java GUI Development Fundamentals
- Event-Driven Programming
- User Interface Design Principles
- Application Architecture Concepts
- Input Validation and Error Handling
- Application Security Fundamentals
- Deploying Desktop Applications

Day 5: Web Applications, Testing and Enterprise Development

- Introduction to Java Web Technologies
- Servlets and Web Application Concepts
- Application Testing and Quality Assurance
- Secure Coding Practices
- Software Development Lifecycle (SDLC)
- Modern Java Development Frameworks Overview
- Capstone Java Application Development Project

METHODOLOGY

How you will learn

This highly interactive programme combines:

- Expert-led presentations
- Hands-on Java programming laboratories
- Coding workshops and exercises
- Software development projects
- Object-oriented design exercises
- Database integration workshops
- Application testing simulations
- Real-world programming case studies
- Group discussions and peer reviews
- Capstone Java application development project

Participants will gain practical experience through extensive coding exercises and real-world software development scenarios.

IMPACT

The return on learning

For your organisation

- Strengthen software development capabilities
- Improve application design and development quality
- Enhance automation and digital solution development
- Improve software maintainability and scalability
- Strengthen in-house application development expertise
- Enhance technology innovation capabilities
- Improve software quality assurance practices
- Support digital transformation projects
- Reduce dependence on external development resources
- Improve operational efficiency through custom software solutions

For you

- Develop professional Java programming skills
- Strengthen software development and coding competencies
- Improve problem-solving and analytical thinking abilities
- Gain practical experience in application development
- Enhance database programming knowledge
- Improve software testing and debugging capabilities
- Strengthen career prospects in software engineering
- Build competencies required for enterprise development roles

CERTIFICATION

Seya Capital certificate

Upon successful completion of the programme, participants will be awarded the prestigious:

Seya Capital Professional Certificate in Java Programming and Application Development

Recognising professional competence in Java programming, object-oriented development, software engineering, database programming, application design, software testing, web application development, secure coding practices, enterprise application development, and modern software solution implementation.

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Register or enquire

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