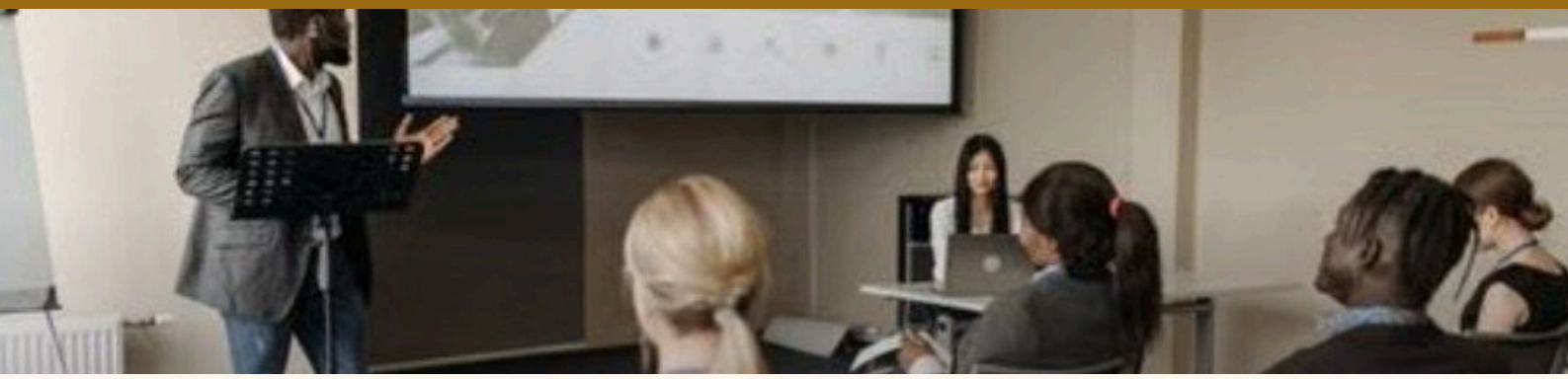


SEYA CAPITAL
INSIGHT.STRATEGY.GROWTH

INFORMATION & COMMUNICATION TECHNOLOGY

Software Development Professional Certificate Programme

Designing, Building & Managing Modern Software Solutions for Digital Innovation

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

OVERVIEW

About this course

Software development is at the heart of digital transformation, enabling organisations to automate processes, improve service delivery, enhance customer experiences, and create innovative digital products. As businesses increasingly rely on technology-driven solutions, the demand for skilled software developers capable of designing, developing, testing, deploying, and maintaining applications continues to grow.

The Seya Capital Software Development Professional Certificate Programme equips participants with the knowledge, methodologies, tools, and practical skills required to develop high-quality software applications using industry best practices and modern development frameworks. The programme covers software engineering principles, programming concepts, application design, database integration, web technologies, software testing, Agile development methodologies, DevOps fundamentals, and software security.

Participants will gain practical experience developing software solutions while building competencies required for modern technology environments.

2027 SCHEDULE

Dates, venues & fees

DATES	VENUE	FORMAT	FEE PER DELEGATE
29 Mar – 2 Apr 2027	Port Elizabeth, South Africa	5 days	**US$ 2,650**
5 – 16 Apr 2027	Arusha, Tanzania	2 weeks	**US$ 3,780**
12 – 16 Apr 2027	Arusha, 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

- Software development lifecycle (SDLC) methodologies
- Programming fundamentals and application development
- Object-Oriented Programming (OOP) principles
- Database design and management
- Web and enterprise application development
- User Interface (UI) and User Experience (UX) design principles
- Software testing and quality assurance
- Agile and DevOps practices
- Secure software development practices
- Cloud-based application development concepts
- Application deployment and maintenance
- Emerging software development technologies
- Participants will explore practical applications including:
- Software Requirements Analysis
- Application Design and Development
- Database Design and Integration
- Web Application Development
- User Interface Design
- API Development and Integration
- Software Testing and Debugging
- Secure Coding Implementation
- Agile Project Delivery
- DevOps Pipeline Concepts
- Cloud Application Deployment
- Enterprise Software Solution Development
- Web Application Development
- Front-end and back-end development
- Database connectivity
- Application deployment
- Web services integration
- Enterprise Software Development
- Business application development
- Systems integration
- Enterprise architecture concepts
- Scalable software design
- Agile and DevOps Development
- Scrum practices
- Continuous delivery concepts
- Collaboration and automation
- Modern software delivery pipelines
- Secure Software Engineering
- Secure coding principles
- Application security testing
- Vulnerability management
- Secure development lifecycle

OBJECTIVES

By the end of the course

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

- Understand software engineering principles and software development methodologies.
- Design and develop software applications using industry best practices.
- Apply object-oriented programming principles in application development.
- Develop and manage application databases.
- Build web-based and enterprise software solutions.
- Conduct software testing and quality assurance activities.
- Apply Agile, Scrum, and DevOps development approaches.
- Implement secure coding and application security principles.
- Deploy, maintain, and optimise software applications.
- Support digital transformation initiatives through software innovation.

WHO SHOULD ATTEND

Designed for

Software Developers | Application Developers | Systems Developers | Web Developers | ICT Professionals | Computer Science Graduates | Business Application Developers | Digital Transformation Professionals | Technology Consultants | Database Developers | Project Managers involved in technology projects | Entrepreneurs and Digital Innovators | STEM Graduates | Individuals pursuing careers in software engineering

PROGRAMME

Course outline

Day 1: Foundations of Software Development

- Introduction to Software Development
- Software Development Lifecycle (SDLC)
- Programming Concepts and Logic
- Software Engineering Principles
- Development Methodologies
- Introduction to Agile and Scrum
- Software Development Best Practices

Day 2: Programming and Application Design

- Object-Oriented Programming Concepts
- Software Architecture Fundamentals
- Application Design Principles
- User Interface and User Experience Design
- Coding Standards and Documentation
- Code Reusability and Modularity
- Design Patterns Fundamentals

Day 3: Database Development and Web Technologies

- Database Design Principles
- Relational Database Management Systems
- SQL Fundamentals
- Database Integration
- Web Development Fundamentals
- APIs and System Integration
- Application Data Management

Day 4: Testing, Security and Quality Assurance

- Software Testing Methodologies
- Unit, Integration and System Testing
- Debugging Techniques
- Software Quality Assurance
- Secure Coding Practices
- Application Security Principles
- Vulnerability Management

Day 5: Deployment, DevOps and Capstone Project

- DevOps Fundamentals
- Continuous Integration and Continuous Deployment (CI/CD)
- Application Deployment Strategies
- Cloud-Based Development Concepts
- Software Maintenance and Support
- Emerging Trends in Software Development
- Capstone Software Development Project

METHODOLOGY

How you will learn

This highly interactive programme combines:

- Expert-led presentations
- Hands-on coding laboratories
- Software development workshops
- Application design exercises
- Database development practical sessions
- Software testing simulations
- Agile project workshops
- Real-world software development case studies
- Group discussions and collaborative learning
- Capstone software development project

Participants will gain practical, hands-on experience throughout the software development lifecycle.

IMPACT

The return on learning

For your organisation

- Strengthen software development capabilities
- Improve development quality and application reliability
- Accelerate digital transformation initiatives
- Improve automation and business process efficiency
- Enhance innovation and product development capabilities
- Improve software governance and quality assurance
- Strengthen cybersecurity through secure coding practices
- Reduce dependency on outsourced development services
- Improve customer experience through better digital solutions
- Increase return on technology investments

For you

- Develop professional software development competencies
- Strengthen programming and coding capabilities
- Improve analytical and problem-solving skills
- Gain practical experience developing real-world applications
- Enhance software testing and debugging expertise
- Improve career opportunities in software engineering and development
- Strengthen project and team collaboration skills
- Build expertise demanded in modern digital workplaces

CERTIFICATION

Seya Capital certificate

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

Seya Capital Professional Certificate in Software Development

Recognising professional competence in software engineering, application development, programming, database integration, web technologies, software testing, DevOps practices, secure software development, application deployment, and enterprise software solution design and implementation.

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Register or enquire

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