

IT SKILLS PROGRAMMES

JAVA PROGRAMMER

QUALIFICATION TYPE:
SKILLS PROGRAMME ID (SP-220329)

TRAINING DAYS: 68

*Designed to support your
Workplace Skills Plan and
build job-ready IT capability*

Build capability for modern software development

As South Africa continues to invest in digital transformation and the Fourth Industrial Revolution (4IR), the demand for skilled software developers is growing. Java remains a core language powering enterprise systems, applications, and digital platforms. Organisations need developers who can build structured, reliable solutions.

This Java Programmer skills programme builds practical capability to develop clear, efficient software. Learners strengthen their coding practices, improve code quality, and collaborate effectively using tools like Git.

On successful completion of this skills programme and successful FISA (Final Integrated Summative Assessment), learners will be awarded: **QCTO Certificate: Java Programmer**
(An accredited, credit-bearing Skills Programme certificate)

We work closely with you to understand your objectives, guide you through the requirements, and support the implementation of skills programmes that deliver real impact.



NQF LEVEL **4**



CREDITS **53**



WHO SHOULD ENROL?

- Organisations building software development capability, or strengthening coding standards and collaboration
- Teams working on enterprise or application development
- Individuals starting a career in software development, or interested in coding and technology
- Aspiring developers looking to build strong Java programming skills

WHAT MAKES THIS COURSE DIFFERENT?

This skills programme is designed to move you from learning to doing

- Build strong foundations in Java programming and coding principles
- Apply your skills through hands-on development tasks
- Gain experience working with version control and collaborative development tools

WHAT IS THE ENTRY CRITERIA?

- NQF Level 4

JAVA PROGRAMMER SKILLS PROGRAMME

A Java Programmer will be able to implement solutions to solve real-life problems in an efficient manner, applying knowledge and understanding of the principles of programming with Java and applicable tools.

Tasks that the learner will be able to know, do and understand after achievement of the skills programme include:

- Create well-written and readable Java programs, using a disciplined coding style, including documentation and indentation standards.
- Use Git functionalities for working collaboratively in a team and execute version control

Skills your teams will build

These exit level outcomes show the skills you'll have built:

- Describe the basics of Java Programming
- Programme effectively using Java frameworks and functionalities
- Work collaboratively in a team using GitHub platform

Assessment designed to show what you can do

Learners are assessed throughout the programme using a variety of methods, which may include practical tasks, written assignments, short projects, demonstrations, and presentations. Evidence of learning is collected and recorded for monitoring, feedback, and quality assurance. Where the curriculum is delivered in modules, internal summative assessments are conducted at the end of each module and results are recorded.

After completing all modules, learners must complete a Final Integrated Supervised Assessment (FISA) that integrates the key outcomes of the skills programme. The FISA is implemented through one assessment process, which may be conducted using either of the following supervised methods:

Face-to-face Assessment

The FISA is conducted in person under direct supervision, using approved assessment instruments and a rubric and/or checklist to confirm that all required competencies have been demonstrated

Virtual delivery via e-assessment

The FISA may be conducted virtually via our secure e-assessment platform (Questionmark). This assessment is conducted under supervised conditions and is further strengthened through the use of proctoring, which provides real-time monitoring and verification of learner identity and assessment conditions. Proctoring enhances the integrity, credibility, and reliability of the FISA by reducing the risk of malpractice, ensuring compliance with assessment rules, and confirming that the assessment is conducted fairly, consistently, and in line with approved assessment requirements

The FISA is supervised, with a pass mark set at 75%

Let's partner for impact!

Our approach combines a deep understanding of your objectives with expert guidance on QCTO skills programmes, ensuring smooth implementation and meaningful impact in the workplace.

We'll help you get clear on the holistic implementation process

From first conversation to final assessment, you'll be supported by a team that understands how to make QCTO programmes work in practice.

Delivered your way

- Classroom | Johannesburg
- Virtual | Instructor-led
- On-site | Nationwide

Take the next step with us!

✉ impactful@lrmg.co.za

🌐 impactful.co.za

JAVA PROGRAMMER

QUALIFICATION TYPE:
SKILLS PROGRAMME ID (SP-220329)

This detailed overview outlines how the skills programme is structured to develop capability progressively, from foundational knowledge, through applied practical skills, to integrated workplace experience. Each module is aligned to the credit requirements of the nationally recognised skills programme

The Skills Rationale

The Presidential Commission on the Fourth Industrial Revolution (PC4IR) was established in 2019 to assess and drive South Africa's competitiveness in the digital economy. By 2020, it released recommendations emphasizing the urgency for big data analysis, web-enabled market investments, cloud computing, and machine learning, with software development being central to these advancements.

However, South Africa faces a scarcity of software developers, and there is no nationally approved qualification focused specifically on training them. Java programming, widely used in mobile applications, AI, web design, and other sectors, is in high demand globally. The US Bureau of Labor Statistics forecasts 22% growth in software development jobs by 2029, far exceeding the average 4% across all professions. Similarly, South Africa's Department of Higher Education and Training has identified software development as a critical skills area for industry and academia.

Beyond traditional employment, software development offers entrepreneurial opportunities, with 39.5% of surveyed developers (2019 OFFERZEN report) aspiring to start their own businesses within five years. This wave of new companies could accelerate job creation, digital connectivity, and economic growth. South Africa's ICT industry is highly competitive, with various vendors offering globally recognized certifications.

The skills programme is vendor-agnostic, enabling learners to pursue any certification and enhancing inclusivity in the sector. Targeting school leavers and aspiring ICT professionals. While formal registration isn't mandatory, international certifications significantly enhance employability across diverse sectors, including finance, insurance, healthcare, government, and agriculture.

In short, expanding Java programming education and software development skills will bolster South Africa's economy, increase competitiveness, and create high-paying career opportunities.

KNOWLEDGE COMPONENTS

- Module 1: Introduction to Java Programming
- Module 2: Principles of Programming with Java
- Module 3: Principles of Object Orientated Programming with Java
- Module 4: Principles of Intermediate Programming with Java
- Module 5: REST API and Modularization

APPLICATION COMPONENTS

- Module 1: Getting started with Java
- Module 2: Programming with Java
- Module 3: Object Orientated Programming with Java
- Module 4: Intermediate Programming with Java
- Module 5: Getting started with REST API and Modularization
- Module 6: Keystone project with Java