

IT SKILLS PROGRAMMES

JAVASCRIPT PROGRAMMER

QUALIFICATION TYPE:
SKILLS PROGRAMME ID (SP- 220373)

TRAINING DAYS: 75

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



Build modern web dev capability that delivers

JavaScript powers the applications, platforms, and digital experiences organisations rely on every day. As demand for developers continues to grow, building strong JavaScript capability is critical to digital performance and innovation.

This JavaScript Programmer skills programme builds practical capability to develop front-end solutions, apply structured coding practices, and collaborate effectively using modern tools. Learners gain the skills to build responsive, reliable applications that solve real business problems.

On successful completion of this skills programme and successful FISA (Final Integrated Summative Assessment), learners will be awarded: **QCTO Certificate: JavaScript 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 **60**

WHO SHOULD ENROL?

- Organisations strengthening cybersecurity capability and risk readiness
- Teams responsible for systems, networks, and data protection
- Individuals starting a career in IT or cybersecurity
- Aspiring professionals building security and threat detection skills

WHAT MAKES THIS COURSE DIFFERENT?

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

- Build strong foundations in cybersecurity, risk, and governance
- Apply skills in practical environments that simulate real-world threats
- Gain hands-on experience detecting, preventing, and responding to cyber incidents

WHAT IS THE ENTRY CRITERIA?

- Grade 11 with Maths Lit and English

JAVASCRIPT PROGRAMMER

SKILLS PROGRAMME

A JavaScript 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 JavaScript 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 JavaScript programs, using a disciplined coding style
- Work collaboratively in a team and execute version control

The skills your team will build

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

- Describe the basics of JavaScript Programming
- Build front-end software solutions using the JavaScript programming language
- 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!**

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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

Skills Rationale

South Africa faces a shortage of JavaScript programmers, highlighting the need for targeted skills development programs. Recognizing the impact of the Fourth Industrial Revolution (4IR), the government established the Presidential Commission on the 4IR (PC4IR) in 2019, which later emphasized the urgency of digital transformation and human capital investment.

JavaScript skills are crucial for these initiatives, as the demand for programmers has been identified as critical by various Sector Education and Training Authorities (SETAs) and industries across sectors such as finance, healthcare, energy, and government. Addressing this shortage will enhance economic growth and innovation.

Beyond employment, JavaScript programming offers opportunities for entrepreneurship, enabling developers to start businesses and contribute to job creation. Globally, JavaScript remains the most widely used language for web development, mobile applications, and game design.

Training programs for aspiring programmers require a minimum qualification of Grade 11 with Maths Literacy and English, and no formal registration is needed to work as a JavaScript programmer. Careers in this field span web development, application development, and game design.

KNOWLEDGE COMPONENTS

- Module 1: Introduction to JavaScript Programming
- Module 2: Principles of Programming with JavaScript
- Module 3: Principles of Intermediate Programming with JavaScript

APPLICATION COMPONENTS

- Module 1: JavaScript Programming Basics for Beginners
- Module 2: Programme with JavaScript
- Module 3: Intermediate Programming with JavaScript
- Module 4: Projects with JavaScript