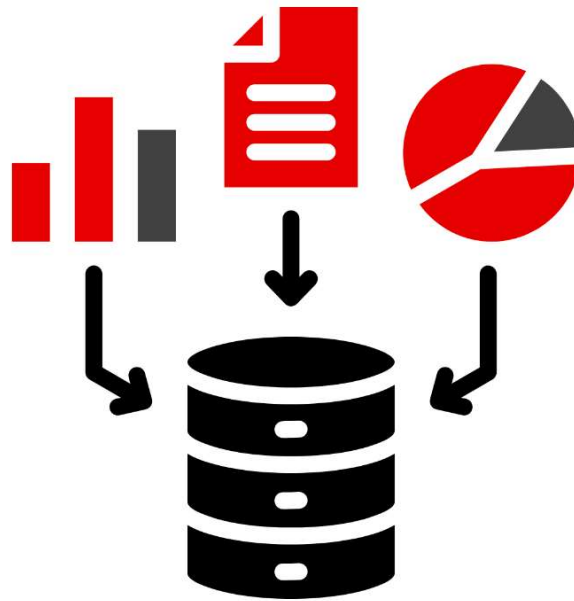


Data Science Practitioner

Accredited Occupational Qualification



Full Qualification

Information Technology and Computer Sciences

Learnership Duration: 12 - 18 Months

SAQA ID: 118708

NQF Level 5 - 185 Credits (1850 Notional Hours)

Notional Hours split into:

Self-paced online e-learning, Virtual Classrooms, In-real-life practical days, Implementing Knowledge in the Workplace, Time Spent on Portfolio of Evidence (PoE), Assessment and Feedback Sessions



Purpose

The purpose of the Data Science Practitioner qualification is to prepare learners to operate effectively in data-driven environments. It equips aspiring Data Practitioners with the ability to collect, manage, analyse and present data to support informed business decisions. The qualification lays a strong foundation for entry-level roles in data or further studies in data science.

Data Science Practitioner Qualification Outcomes

The learners completing the qualification will be able to:

1. Collect large volumes of structured and unstructured data from primary and secondary sources and transform it into usable formats.
2. Apply data analysis techniques, including statistical methods and queries, to uncover trends and patterns that address business-related problems.
3. Prepare and present descriptive analytical reports using programming, visualisation tools, and storytelling techniques to communicate insights effectively





Qualification Overview

The Qualification has been structured around the Curriculum Document as a standard from CHIETA and QCTO. For you, as a business entity, to claim your B-BBEE skills development points, learners are required to complete Knowledge Modules (KM's), Practical Modules (PM's) and Workplace Modules (WM's).

An **occupational qualification** is designed to prepare learners for a specific job or role by combining three key components:




- Knowledge (theory)
- Practical skills (simulated or guided practice)
- Workplace experience (real-world application)

Knowledge Modules (KM's)	Practical Modules (PM's)	Workplace Modules (WM's)
<p>Serve as the foundational learning components that provide learners with the theoretical understanding required for effective performance in the role.</p> <ul style="list-style-type: none"> • KM's x 11 • Purely theoretical • Facilitation done by subject matter experts <ul style="list-style-type: none"> ○ Virtual Classrooms ○ In Real Life Classes (Where possible) • You will get access to: <ul style="list-style-type: none"> ○ Learner Guide (pdf) ○ Online Self-Paced Learning ○ Knowledge Quiz ○ PoE • Test to be written for each Knowledge Module 	<p>Are designed to develop the hands-on skills needed to apply theoretical knowledge in real-world scenarios, bridging the gap between classroom learning and workplace performance.</p> <ul style="list-style-type: none"> • PM's x 10 • Facilitation done by subject matter experts <ul style="list-style-type: none"> ○ Virtual Classrooms • Requires input from the workplace and mentor/s • You will get access to: <ul style="list-style-type: none"> ○ Learner Guide (pdf) ○ PoE template ○ Training guidance • No tests 	<p>Focus on the real-time application of knowledge and skills in an actual work environment, ensuring that learners are work-ready and capable of operating professionally and ethically within the industry.</p> <ul style="list-style-type: none"> • WM's x 4 • Led by the workplace • Regular virtual Classroom check-ins with subject matter expert over the 12/18-month period. • You will get access to: <ul style="list-style-type: none"> ○ Training guidance ○ Workplace Logbook Template • No tests





Qualification Curriculum Breakdown

 <p>Knowledge Modules (KM's)</p> <p>Implemented Month 1</p> <p>NQF 4 (66 credits)</p> <p>Total Notional Hours = 660 hrs</p>	 <p>Practical Modules (PM's)</p> <p>Implemented Month 2 - 4</p> <p>NQF 5 (59 credits)</p> <p>Total Notional Hours = 590 hrs</p>	 <p>Workplace Modules (WM's)</p> <p>Implemented Month 1 - 12</p> <p>NQF 5 (60 credits)</p> <p>Total Notional Hours = 600 hrs</p>
<ul style="list-style-type: none"> • KM01: Introduction to Data Science and Data Analysis • KM02: Logical Thinking and Basic Calculations: Refresher • KM03: Computers and Computing Systems • KM04: Computing Theory • KM05: Basic Statistics for Data Analytics • KM06: Statistics Essentials for Data Analytics • KM07: Data Science and Data Analysis • KM08: Data Analysis and Visualisation • KM09: Introduction to Governance, Legislation and Ethics • KM10: Fundamentals of Design Thinking and Innovation • KM11: 4IR and Future Skills 	<ul style="list-style-type: none"> • PM01: Apply Logical Thinking and Maths Refresher • PM02: Apply Code to use a Software Toolkit/Platform • PM03: Use Spreadsheets to Analyse and Visualise Data • PM04: Use a Visual Analytics Platform • PM05: Apply Statistical Tools and Techniques • PM06: Collect and Pre-Process Data • PM07: Apply Data Analysis Techniques • PM08: Prepare Analytical Reports • PM09: Design Thinking Workshop • PM10: Workplace Collaboration 	<ul style="list-style-type: none"> • WM01: Data Collection and Pre-processing Processes • WM02: Statistical Data Analysis Processes • WM03: Data Visualisation and Reporting Processes • WM04: Capstone Project





Who should take this qualification

If you already have a background in Computer Science, Statistics, Applied Mathematics, Data Science, or a related STEM field, you may qualify for Recognition of Prior Learning (RPL) against certain Knowledge Modules.

Who shouldn't take this qualification

This qualification may not be suitable for individuals whose interests are not aligned with data, analytics, or technology. It may also not suit those who prefer non-analytical roles or are not interested in working with data-driven decision-making.

Disclaimer

This qualification cannot be completed through classroom learning alone. It is an occupational programme that requires learners to be employed or placed within an accredited workplace, where they can gain practical experience alongside their studies.

To complete the programme successfully, learners must be able to apply their knowledge in a real work environment, complete required tasks, and submit evidence for assessment. Without access to an accredited workplace, the qualification cannot be completed.

DSP - % Time Spent Breakdown

The time spent learning is split into:

- Online Self-Paced Learning
- Virtual Classrooms
- In-real-life sessions

The time spent on workplace tasks is completed with the approved workplace company.

Please Note:

As this qualification has not yet been implemented, an accurate % time breakdown is not currently available.





About Diverse Conversations

Diverse Conversations is a Level 1 B-BBEE, 51% black woman-owned skills development provider in the health products industry. Since 2005, the company has grown from offering short skills programmes to delivering accredited learnerships, leadership and soft skills training, and blended learning solutions. Over the years, it has built a strong reputation for developing talent pipelines, supported by an online learning platform and an active alumni community.

We are a training partner focused on delivering practical, workplace-based learning that prepares individuals for real roles in the industry. Our approach combines e-learning with in-person facilitation to support both learners and employers.

We don't just train, we deliver results.

Your BEE level 1 Seta Accredited partner to:

- Optimize the Skills Development pillar for your **B-BBEE Scorecard**
- **Cultivate Top Talent** on your behalf
- Implement **Audit Ready Learnerships** and Graduate Programs
- **Support your Skilled Mentors**

98% Learnership Completion Rate

75% Absorption Rate

What we do

We partner with businesses to implement accredited, audit-ready learnerships and graduate development programmes that support both skills development and B-BBEE objectives. Our approach focuses on building strong talent pipelines while ensuring programmes are practical, structured, and aligned to industry needs. We also design tailored learning solutions to meet each organisation's specific training and development requirements.





Our Track Record

Accredited since 2014, Diverse Conversations has proudly produced business results for our clients.

75%

on average of **learners qualify from our qualifications** become successfully employed post-graduate development program.

500+

learners successfully obtained nationally-recognised full qualification certificates.

95+

individual courses available on the on-line learning platform to elevate your career.

8+

partners in top health industry, life sciences, MedTech and medical devices companies.

50+

successful quality assurance visits from SETAS and other quality assurance bodies.

Whilst implementing this curriculum, learners can be an extra pair of hands while learning about marketing, sales, and sharing product information appropriately with other stakeholders.

Blended Learning Methodology



Interactive Online Learning

- Video Presentations
- Animated Patient Cases
- Mentor Interviews
- Quizzes
- Self-paced learning



Virtual Classrooms

- Subject Matter Expert Facilitators
- Digital Interactive Facilitation
- Practical Examples



Face-to-face classrooms

- Practical Activities
- Live Assessments
- Portfolio Coaching
- Assessment Feedback

Get in Touch

Explore our programmes and submit your enquiry:

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