



Executive Summary

Qualification	Occupational Certificate Robotic Process Automation (RPA) Developer
Purpose	The purpose of this qualification is to prepare a learner to operate as a Robotic Process Automation (RPA) Developer. The Robotic Process Automation (RPA) Developer works with other developers and solution architects to develop robotic processing automation software to emulate the business process defined by the process owner and documented by the business analysts. They configure software RPA solutions to perform automated business processes that typically interact with multiple applications and data. Typical occupations include RPA Associate, Junior RPA Developer, and Process Automation Specialist.
Qualification ID	119242
NQF Level	5
Minimum Credits	185
Duration	One year
Field	Physical, Mathematical, Computer, and Life Sciences
Subfield	Information Technology and Computer Sciences
Quality Partner	MICT SETA
Entry Requirements	NQF Level 4 qualification

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Qualification Overview

Robotic process automation (RPA) is transforming the way organisations operate by streamlining manual processes and reducing the burden of manual human activities. RPA is changing the world of work, and the growth of RPA software has exploded across all industries and in all functions, from healthcare to financial services, from human resources to call centre automation. Opportunities for automation thus exist virtually everywhere throughout every business, enabling greater organisational performance and efficiency, but it is an opportunity that will be missed without people having skills to design, implement and maintain automated processes.

The qualification will play an important role in the digital transformation of South Africa. It will address the demand for RPA skills, thereby benefitting the economy as well as the IT sector. The RPA Developer designs RPA solutions which eliminate defects, errors and problems with business or customer service processes. Society will benefit from RPA solutions in terms of reduced risk, reduction in manual errors, faster service, and reduced workload.

Qualifying learners will be able to:

- Develop RPA solutions which emulate human actions
- Execute test procedures for evaluating the performance of an RPA solution
- Modify and improve existing RPA solutions

The KLM Empowered Learning X Perience

X Plore

For each of the integrated learning blocks, learners explore content on their own before engaging with others. Guided by self-study plans and diagnostic self-assessment, they formulate their own insights to share.


X Tend

Workplace application assignments allow learners to put their new learning to use on the job. Under the guidance of mentors, and with access to performance and wellness support, learners hone their skills and add value.


X Cite

Learners receive a welcome letter and an X Perience Map detailing the flow of their qualification. An orientation session helps them to understand the benefits and career options linked to the qualification.


X Change

Learners attend facilitator-led sessions, either in class or online, to share their learning and refine their skills in a safe environment. Collaborative activities and peer feedback build learning synergy and allow learners to master specific skills.


X Cel

Each learner's progress is measured against assessment criteria through formative and summative assessment. Final examinations and presentations are used to obtain an accurate picture of overall understanding and mastery of the content.

Qualification Outline

- The Occupational Certificate: RPA Developer consists of the following Knowledge, Practical and Work Experience Modules.
- Workplace Experience Modules are completed throughout the learning journey and assessed every quarter.
- Formative and summative assessments are conducted at regular intervals to prepare learners for the External Integrated Summative Assessment (EISA).

Knowledge Modules

ID	Title	Level	Credits
KM-01	Overview of RPA	4	2
KM-02	Basic Calculations and Logical Thinking	4	4
KM-03	Computers and Computing Systems	4	3
KM-04	Computing Theory	4	4
KM-05	Data, Databases, and Data Scraping	4	4
KM-06	Introduction to RPA for the Automation of Processes	5	12
KM-07	Robotic Process Automation	5	12
KM-08	Introduction to RPA Governance, Legislation, and Ethics	4	1
KM-09	Fundamentals of Design Thinking and Innovation	4	1
KM-10	4IR and Future Skills	4	4

Practical Modules

ID	Title	Level	Credits
PM-01	Basic Calculations for Programming	4	8
PM-02	Basic Programming	4	8
PM-03	Access, Analyse and Visualise Structured Data Using Spreadsheets and Scraping Tools	5	6
PM-04	Model and Develop RPA Solutions	5	14
PM-05	Execute Test Procedures for Evaluating RPA Solution Performance	5	10
PM-06	Deploy RPA Solutions which Emulate Actions of a Human Interacting within Digital Systems	5	6
PM-07	Modify and Improve Existing RPA Solutions	5	6
PM-08	Function Ethically and Effectively as a Member of a Multidisciplinary Team	4	4
PM-09	Apply Design Thinking Methodologies	4	4

Work Experience Modules

The focus of the work experience modules is to provide the learner an opportunity to implement RPA solutions under authentic working conditions and to develop confidence by working under the supervision of a workplace mentor. This also provides for the exposure of learners to the complexities of dealing with workplace demands, the pressures of work, and the dynamics of stakeholder management.

ID	Title	Level	Credits
WM-01	RPA Solution Design Interpretation and Development	5	28
WM-02	RPA Solution Performance Testing	5	24
WM-03	RPA Solution Deployment, Modification, and Improvement	5	20

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