

QUALIFICATION TITLE:	8. National Certificate: Electronics
NQF Level:	Level 3
DURATION:	One year
PURPOSE:	<p>This qualification intends to set standards for a typical learner entering the field of electronics. It will provide learners with foundational, basic knowledge and experiential skills to be able to perform in the electronics field. It will be valuable to potential learners who may have been working or practicing within the electronics field such as electronics artisans, shopfloor workers working within the electronics environment who do not have formal education in electronics and any person wishing to join the electronics field thus providing them with the opportunity for formal recognition of their skills and knowledge through Recognition of Prior Learning.</p> <p>The qualification is structured in such a way that it enables learners to gain progression towards the higher NQF levels thus creating career opportunities for learners within the electronics environment. The unit standards contained in this qualification will provide building blocks for specific skills that provide access to related qualifications in this field as well as providing articulation possibilities. This qualification is the first in the learning pathway for electronics and articulates vertically to the planned Level 4, FETC: Electronics, National Certificate: Electronics, NQF Level 5 and a National Diploma: Electronics at NQF Level 5. The qualification also provides horizontal articulation to electronics related qualifications within the telecommunications and electronics servicing industries at NQF Level 3.</p>
CAREER PATH:	<p>Electronics is a specialised field that requires specific knowledge and skills to be able to operate productively within the sector. People working within the production and operation lines such as assemblers need this qualification to be able to operate effectively within the parameters of legislative and regulatory frameworks governing this sector. It will provide learners with the relevant knowledge, skills, values, and attitudes to be able to operate in this sector. Currently there is no targeted electronics qualification existing at an introductory level that will develop key competencies (knowledge, skills, attitudes, and values) required in the sector. It seeks to provide people working in the sector and those wishing to join the sector with a relevant qualification fitting for the job.</p> <p>It will benefit individuals at work, as it is mostly occupational-oriented thus providing learners with knowledge and skills to enable them to meet global electronics standards at an introductory level. This qualification will facilitate articulation to other qualifications which include mechatronics, autotronics and electronic warfare thus facilitating mobility, personal growth within the electronics field and improve productivity. Learners will have a working understanding of elementary principles within the electronics sector.</p>
Exit Level Outcome	<ol style="list-style-type: none"> 1. Communicate in a variety of ways to achieve personal and workplace objectives within the electronics environment. 2. Use mathematical concepts and processes to solve personal and electronics related problems. 3. Apply elementary principles of electricity and electronics. 4. Demonstrate knowledge of electronic components, instruments, and test equipment (hand skills). 5. Assemble cables, harness, and printed circuit/wiring boards.

	6. Apply safety measures in an electronics environment.
Entry Requirements for the Programmes:	Learners are assumed to be competent in: <ul style="list-style-type: none"><input type="checkbox"/> Communication, NQF Level 2.<input type="checkbox"/> Mathematics, NQF level 2.<input type="checkbox"/> Computer Literacy, NQF Level 2.