

Energy Performance Certificates (EPC) for Buildings

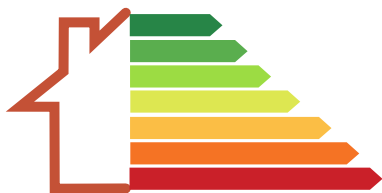
A demand-orientated, dual-structured short course for the Energy Performance Certificate (EPC) Practitioner qualification registered as a skills programme with the Quality Council for Trades and Occupations (QCTO).

The EPC Practitioner Skills Programme meets the demand for skills to implement the Energy Performance Certificate Regulation.

Youth employment opportunities

With thousands of buildings' data and information to be collected, EPC Practitioners have the understanding and skills to perform these services for:

- Facility management companies
- Energy Services Companies (ESCOs)
- Property developers
- Property owners
- Government
- Electrical contractors
- Accredited inspection bodies for EPCs



EPC
Practitioner
Skills Programme

SAQA NQF Level: 5
QCTO SP-220323 | Credits: 25



The aim of the EPC Practitioner Skills Programme is to provide an entry level qualification into the energy efficiency sector of the green skills economy. It provides a good foundation upon which further skills development can take place into more in-depth areas of energy such as mechanical energy, thermal energy, the complete building envelope optimization, and energy systems such as lighting, heating ventilation and cooling, motors, steam, compressed air, hot water heating, pumps, fans as well as renewable energy.

Course Structure

- Knowledge modules - 10 days
- Practical skills modules - 5 days
- Work experience modules - 20 days

Assessment Criteria

The Final Supervised Assessment (FSA) will consist of two (2) components:

- a written final exam, and
- practical component in the form of a supervised assignment producing the final sample product of an EPC with a summary report

Minimum entry requirements

- N4 Electrical Engineering, or
- NQF Level 4 with technical maths and science, or a technical subject, or
- 6 months full time work experience as a qualified artisan

Knowledge & Theory Modules

Fundamentals of electrical energy

Energy conversion and efficiency

Fundamentals of electrical energy

Theory of energy audits

Policies, regulations and standards relating to energy performance of buildings

Application Modules

- 1 Determine energy audit data requirements for energy performance of a building
- 2 Measure energy performance of the building
- 3 Analyse energy data collected for the energy performance of a building
- 4 Prepare and present energy audit findings of the energy performance of a building
- 5 Energy audit planning processes for a building system
- 6 Data collection and measurement processes
- 7 Data analysis of the energy performance of a building
- 8 Energy audit reporting processes for building energy performance