



RE Workshop Assistant

QCTO-Accredited Skills Programme



The Renewable Energy Workshop Assistant course is designed to prepare learners for entry-level roles in the RE sector.

This is done by equipping them with the practical skills, technical knowledge, and safety awareness needed to function effectively in workshop and installation environments.

The course develops competence in supporting solar PV installations, understanding workplace safety and procedures, and using tools and electrical equipment correctly.

By the end of the programme, participants will be able to contribute meaningfully to renewable energy projects while promoting safe and environmentally responsible practices.



Learning Objectives

Participants will become proficient in using tools and equipment found in solar workshops and will be able to assist qualified installers with PV module mounting and basic wiring tasks.

They will learn to apply safety protocols and identify potential hazards on renewable energy sites, ensuring safe and efficient operations.

The course also covers evacuation procedures, lockout techniques, and fire control, along with foundational knowledge of electricity, solar systems, and their components.



Accreditation

This course is accredited by QCTO as **SP-210602** and awards participants 24 Credits. Graduates will be certified as Renewable Energy Workshop Assistants.

Renewable Energy Workshop Assistant

QCTO-Accredited Skills Programme



Target Audience

Individuals and groups seeking QCTO-accredited training in the solar industry, including:

- TVET students and high school students with NQF Level 1 (Grade 9) or higher
- People considering a career change and looking to enter the green economy with practical, job-relevant skills

Why QCTO?

- **National recognition and trust:** Credible to employers and government
- **Job-focused:** Designed with industry input
- **Pathways to careers:** Progress to artisan status
- **Access to funding:** supported by SETAs, NSF, and youth employment schemes



Pricing and Duration

- From R20 000 excl VAT
- Up to 30 days total, including:
 - Minimum 10 days in-class training
 - Maximum 20 days for assignments and formative assessment



Main Topics

Theory Modules:

- Principles of electricity & solar energy
- Introduction to renewable energy and sustainability
- Legal, economic and regulatory frameworks
- Occupational Health and Safety (OHS) legislation and PPE usage
- Company-specific safety procedures
- Fire safety, incident reporting & evacuation procedures

Practical Modules:

Simulated work in a PV solar installation context. Learners practice essential tasks in a controlled environment, including:

- Hazard identification & risk mitigation
- Safe use of hand and power tools
- Marking, measuring & lifting equipment
- Wiring techniques, soldering & riveting
- Basic PV system installation (under supervision)
- Testing & basic maintenance tasks

Interested in this qualification? Contact us!

Tsakani Mashila | Team Leader Sales

+27 (0)10 312 6724 | info@solar-training.org

