



# NEPOWERX

SOLAR ACADEMY

PRESENTATION  
2022



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# ABOUT NEPOWORX

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# WHAT WE ARE ABOUT

## ABOUT NEPOWORX

- Nepoworx is a renewable energy training institution.
- We offer solar PV (installation and designer), energy efficiency and renewable energy finance **courses**.
- We are an **accredited training institution** with the South African Photovoltaic Industry Association (SAPVIA), QCTO and ECSA.

## VISION

- To provide various innovative green initiatives that assist the African continent to gain access to clean energy and close the gap on **hard to fill vacancies in the green energy economy**.

## MISSION

- Our mission is to assist communities in forming part of the **Just Energy Transition** road map currently unfolding in the Sub-Saharan region (South Africa).

## AREAS OF ACTION

- **Public Private Partnerships** to accelerate the development of green skills for a Just Energy Transition.
- To ensure the African continent leapfrogs to a sustainable, prosperous future for all through renewable energy.
- Increasing **access to reliable, affordable and clean energy resources** is a key priority, particularly in sub-Saharan Africa.



# OUR PARTNERSHIPS

We have partnered with like-minded organizations that are active in the renewable energy industry. These include IPPs, Solar PV industry Associations and SDG constituencies



# Nepoworx Courses

Course Guide:

## 1. Beginners/Intermediate Level

- Solar PV System Mounter

## 2. Professionals

- Solar PV Project Finance
- PV GreenCard
- QCTO Solar PV Technician
- Energy Efficiency Technician
- Solar PV Designer Software for commercial and industrial projects



We are one of the few PV GreenCard accredited training institutions and assessment centres in the country

## What is the PV GreenCard?

- The PV GreenCard has been developed to promote safe and high-quality Solar PV installations.
- The PV GreenCard Programme focuses on education, skills development, and training to build installer capacity as well as improve standards in line with international best practice.
- The PV GreenCard is a national, standardised hand-over report for roof-top PV installations.

## What is it good for

- To increase quality of solar installations
- To make customers feel safe when handing over a PV system

## Who can issue the PV GreenCard?

- SAPVIA certified installers which successfully passed the PV Installer Assessment.

## Who can become a SAPVIA certified installer?

- Experienced PV installers who pass the PV Installer Assessment



## About the Qualification

- The Solar Photovoltaic Service Technician, is a qualification developed by Merseta and registered with SAQA and QCTO, with an NQF Level 5.

## Purpose of the Qualification

- The purpose of this qualification is to prepare a learner to operate as a Solar Photovoltaic Service Technician to support the growing Renewable Energy Industry.

## Course Modules

- Knowledge Modules
- Practical Modules
- Workplace Modules

Duration: 5 days to 3 years

Credits: 344

NQF: Level 5



# Solar PV System Mounter course

Duration: 2days

Dates: [www.nepoworx.com](http://www.nepoworx.com)

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## Part Qualification of the PV GreenCard training:

This course qualifies a candidate to operate as a solar PV mounter, who mounts pre-designed PV Systems. At the end of the course the participant will be able to perform the tasks expected of a Solar PV Mounter who mounts pre-designed PV systems according to instructions from either a PV Installer or PV Designer.



## Solar PV Project Finance

Duration: 2days (Online)  
Dates: [www.nepoworx.com](http://www.nepoworx.com)

Course sessions include the following topics : Knowledge about Power Purchase Agreements. Key bankability considerations and other key aspects commercial banks & development financial institutions (DFIs) consider in providing funding for solar PV projects. Sources of finance (senior debt, mezzanine debt and BEE funding). Fund raising and due diligence process. Renewable Energy Independent Power Producers (REIPPP) Programme, small scale embedded generation (SSEG) projects and how to develop your own Independent Power Producer (IPP) projects. Renewable energy financial modelling skills for PV projects and the determination of payback periods and Return on Investment (ROI and IRRs).



# Energy Efficiency Technician course



Dates: [www.nepoworx.com](http://www.nepoworx.com)  
Duration: 5 Days

- The purpose of this qualification is to prepare a learner to operate as a Building Energy Efficiency Auditor. A Building Energy Efficiency Auditor assesses analyses and reports on the energy performance of a building to identify opportunities for the improvement of energy performance.
- An Energy Audit Technician assesses, analyses and reports on the energy performance of an organization, equipment, system(s) or process(es) and identifies opportunities for the improvement of energy use, cost reductions and efficiency.

# Solar PV Designer Software Course

Duration: 2days

Dates: [www.nepoworx.com](http://www.nepoworx.com)

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This course offers an in-depth but at the same time simplified way to design the photovoltaic systems in any location using a well recognized software. It allows you to perform the entire process of designing a PV system, from the preliminary assessment of electricity productivity to the realization of the project documentation.





# SOLAR TRAINING ROOF

# SOLAR PV TRAINING ROOF



FIGURE 3: ROOF STRUCTURES



FIGURE 10: COMPLETED INSTALLATION TO BE ASSESSED



FIGURE 4: MOUNTING AREA





## “PLANTING SEEDS OF ACTION”



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