

## Introduction to SOLA Future Energy

At SOLA, we believe that Africa's future relies on affordable, clean and accessible energy. Solar energy – a distributed power source that can run a building, factory, or even an island for 25 years – can pay off in just 5 years. We drive an inclusive economy in Africa through our clean and reliable energy systems, that create sustainable savings for commercial and industrial properties. SOLA has an established track record of successful projects in South Africa.

## Overall purpose of the position:

Installation of all electrical and ancillary equipment related to a solar pv rooftop, compliant system. Planning, measuring and installation of wireways, cables, inverters, PV Panels and electrical switchgear, including connection between these according to relevant standards SANS10142 and others, with the purpose of feeding power into the existing electrical infrastructure.

## Summary of Responsibilities:

- Read and understand Technical and electrical drawings to Compile a complete bill of material required per project;
- Prepare sketches and follow Detailed Design Drawings to determine the location of wiring and equipment and to ensure conformance to building and applicable codes;
- Routing and installation of electrical cable management, cables, wiring and electrical equipment based on job specifications, Design Drawings and applicable codes;
- Install, commission, maintain, modify and repair all electrical distribution systems and associated electrical equipment using hand tools and power tools and ensure that the equipment remains compliant with current SANS and NRS Codes. (CT's, Fuses, Power Meters, ACB's, MCCB's etc.);
- Read wiring diagrams and manufacturer's installation manuals to complete installation;
- Fabricate, repair or replace wiring, equipment, and fixtures, using hand tools and power tools;
- Perform physically demanding tasks, such as moving and lifting heavy objects;
- Work at heights such as ladders, scaffolds, scissor lifts, cherry pickers, roofs etc;
- Test electrical systems, wiring, equipment and fixtures, using testing devices to ensure compatibility and safety of system;
- Diagnose malfunctioning systems and components, using test equipment and hand tools, to locate the cause of a breakdown and correct the problem;
- Inspect electrical systems, equipment, and components to identify hazards, defects, and the need for adjustment or repair, and to ensure compliance with SANS;
- Maintain a clean and safe working environment and comply to OHS Act;
- Maintain records and files, preparing reports and advise on ordering supplies and equipment;
- Complete work orders and measure and record material used on jobs;
- Direct and train workers and contractors to install, maintain, or repair electrical wiring and equipment;
- Inspect and test components of electrical systems, including transformers, transfer switches and switchgear to identify hazards, defects, and the need for adjustment or repair, and to ensure compliance with SANS and manufacturer warranty;
- Manage sub contractor's duties and responsibilities on site;
- Report to Construction Manager and Project Manager on daily progress.

## Key Performance Indicators:

- Project Completion Timelines
- Site Inspection Score (Visual & Quality)
- Percentage of Material Wastage
- Adhering to Relevant Codes and Standards
- Health and Safety Score

**Minimum Requirements:**

- National Certificate in Electrical Engineering: At least NQF level 4;
- Submit documentary proof of successful completed unit standards on inspection, testing and certification of three phase industrial/commercial installations as prescribed by the ESETA;
- Hold a Valid Installation Electrician card from the department of labour 3+ years;
- Submit proof of having passed the prescribed trade test for the Electrician discipline;
- 5+ years' experience in the electrical trade;
- Able to work well in a team and have strong interpersonal communication skills;
- **Must be willing to travel extensively and be away from home for periods (1-2 months at a time);**
- Prior experience with solar installations will be highly beneficial;
- Requires a Code 08 driver's license.

If you are interested to apply, please submit your application to [hireme@solafuture.co.za](mailto:hireme@solafuture.co.za)