



public works
& infrastructure

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

TERMS OF REFERENCE:

APPOINTMENT OF SERVICE PROVIDER TO DELIVER THE TRAINING INTERVENTION IN SUPERSOLAR SCHOOL PROGRAMME

1. Purpose

- 1.1 The Directorate: Human Resources Development requires the appointment of accredited and credible service provider to deliver the training intervention in Super Solar School Course.

2. Background

- 2.1 The Department of Public Works and Infrastructure has in line with the National Skills Development Act and Human Resources Development Strategy conducted a training needs analysis for 2026/27 financial year. The Training Calendar was developed using the training needs received from the units as well as the training gaps identified through the Skills Audit exercise.

- 2.2 The SuperSolar School Programme was identified by one (01) official in the Directorate: Engineering Services.

3. Expected Outcomes/ Deliverables

- 3.1 The SuperSolar School programme should be aimed at assisting the official to learn about electrotechnical basics and functionality of PV systems, how to install systems correctly according to international standards and how to plan and manage a project and size the system including the battery pack according to client's requirements.

3.1.1 The programme would cover and not limited the following topics:

- Basics of solar electricity (series, parallel connection, I-V-characteristic curve);
- Exercises with solar experimental kits;
- PV system concepts (grid-tied, back-up, hybrid, off grid);
- Components and protection elements;
- Site survey and customer consultation;
- Guided installation (practical exercise) of a complete system on a training roof, wiring and commissioning of inverter and battery bank;
- Chronological overview of all the steps of a PV project implementation;
- Sizing of PV plant components according to the client's consumption (exercise);
- Cost Calculation and quote preparation;

- Matching of components and cross-checks according to climate conditions; and
- Marketing and quality assurance for PV businesses.

4. Total number to be trained

One (01) employee from Head Office are to attend the programme.

5. Certification

Learner should not be subjected to any practical assessment and on successful completion of the course should be awarded 5 Continuing Professional Development (CPD) Points validated by SAILL as per ECSA policy and is endorsed by the South African PV Industry Association (SAPVIA).

6. Training Dates

The course should be presented over a period of five (5) days.

7. Training Venue

The training venue inclusive of meals should be provided by the service provider and should be around Gauteng.

8. Specific professional experience

The successful bidder shall provide a suitably qualified, experienced, and competent facilitator to deliver the SuperSolar School programme. The facilitator must have relevant subject-matter expertise, facilitation experience, and the ability to effectively engage learners to achieve the intended learning outcomes.

8. Special requirements

It is a requirement that all service providers facilitating any type of training must be registered/ accredited with the relevant Education Training Quality Assurance (ETQA) Body or Professional Body/Council and must submit a letter confirming accreditation/decision number.

9. All disbursements must be included within the cost per employees.

10. Enquiries

All enquiries should be directed to:

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ASD: Training Coordination
(012) 406 1317