



public works  
& infrastructure

Department:  
Public Works and Infrastructure  
**REPUBLIC OF SOUTH AFRICA**

## **TERMS OF REFERENCE:**

<b>APPOINTMENT OF SERVICE PROVIDER TO DELIVER SUPERSOLARSCHOOL COURSE</b>
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### **1. Purpose**

The Directorate: Human Resources Development requires the appointment of accredited and credible service provider to deliver SuperSolarSchool course.

### **2. Background**

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 in Head Office for the current financial year to identify the training needs of the Units and developed a Training Plan for implementation of needs.

SuperSolarSchool course was identified by two (02) officials in the Directorate: Facilities Management.

### **3. Expected Outcomes/ Deliverables**

This course will help the delegates to learn about electrotechnical basics, functionality of photovoltaic (PV) systems and how to install systems.

#### **3.1 The course would cover the following topics:**

- Basic of solar electricity (series, parallel connection, I-V-characteristic curve)
- Exercises with solar experimental kits
- PV system concept (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
- Marketing and quality assurance for PV businesses.

**4. Total number to be trained**

Two (02) employees from Head Office are to attend the course.

**5. Certification**

Learners should not be subjected to any practical assessment, and on completion of the course they should be awarded CPD points.

**6. Training venue**

The training venue should be provided by the Service Provider and should be around Gauteng.

**7. Training Dates**

The course should be presented over a period of five (05) days.

**10. Specific professional experience**

The Service provider should be chosen for their training experience have proven relevant experience in management and facilitation of SuperSolarSchool course.

**11. Special requirements**

It is a requirements 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. The service provider should be accredited with the Quality Council for Trades and Occupations (QCTO).

**12. All disbursements must be included within the cost per employees.**

**13. Enquiries**

All enquiries should be directed to:

**Ms Mikateko Mkhwanazi  
Training and Development  
(012) 406 1679**