

Announcement for a Training Course

We are happy to invite you to participate in 1 Week training on **Geography Information Systems (GIS), Design and Construction of Medium Voltage (MV) and Low Voltage (LV), Execution, Monitoring and Evaluation, Commissioning** which will be held from **12/07/2021 to 20/07/2021 (Excluding weekends)** at **Kigali Heights**, prepared and directed by Hello Renewables Ltd.

Minimum requirements: All facilitation and materials will be offered in English.

The participants should be reasonably proficient in English. Training Venue and

Accommodation: The training will be held at the Kigali Heights, Rwanda place

prepared and facilitated by Hello Renewables Ltd. Accommodation will be catered by

the participants. The interested candidates are required to send an Email to the training

organizer advisor@hellorenouvelables.com, with a Cc copy to aphrondurwa@gmail.com, at the

latest on **5th /July/2021 at 5.00 PM**. Participation Fees: **USD 3000** VAT included per

trainee (Course Fee). Payment should be transferred to the Hello Renewables Ltd

account as it is registered in ACCESS Bank Rwanda, (Account number:

1002100205376501, Account name: Hello Renewables Ltd, USD currency) before the

beginning of the trainings.

Done in Kigali on **9th June 2021**.

Dr. Samuel Bimenyimana
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CEO, Hello Renewables Ltd.



Training Descriptions

Training on distribution line design and cost estimation for projects

The main objectives of this training are to create, enhance and develop constituent's **capacity** for engineers working in the Medium-voltage and low voltage in designing, implementing, and supervise all activities related to the distribution systems and their protection.

The training will cover the followings topics: **Geography Information Systems (GIS), Design and Construction of Medium Voltage (MV) and Low Voltage (LV), Execution, Monitoring and Evaluation, Commissioning and detailed as follows:**

1. Geography Information Systems (GIS)

- + Site selection and evaluation
- + Network viewing solutions
- + GIS in maintenance and monitoring
- + GIS in information processing and data management
- + Propose a power lines network alignment plan on satellite imagery
- + Integration of data via ArcGIS
- + Production of a map showing network alignments with reference geographic coordinates of proposed poles.
- + Go to the field for confirmation

2. Design for Medium voltage and Low voltage

- + Compilation of information from the electric operator
- + Safety and Risk prevention
- + Safety in hazardous
- + Environmental risk prevention
- + Distribution System Planning and Automation
- + Load characteristics
- + Design considerations, sub-transmission lines, and distribution substations



- ✦ Standards for dimensioning protection equipment
- ✦ Standards for Medium Voltage and Low voltage

3.Execution, Monitoring, and Evaluations

- ✦ Evaluation of materials used and their standards
- ✦ Comparison between IEC-60038 standards and REG Sub-Saharan power utility standard.
- ✦ Standardization Bodies and Guidelines
- ✦ Monitoring of environmental and social activities
- ✦ Electromagnetic compatibility complies with IEC 61000-2-4

4.Commissioning

During the commissioning, following parts need to be assessed with reference to different standards.

- ✦ Distribution network planning and construction standards and guidelines.
- ✦ Network distribution maintenance and standards.
- ✦ Network drawings
- ✦ Distribution network maintenance forms
- ✦ Network planning and development forms

At the end of this training a trainee will be able to design, implementation of Medium voltage (MV) and Low Voltage (LV) and carried an execution of the projects and commissioning as well.