

HELLO RENEWABLES

"Towards clean and Safe Environment"

HELLO RENEWABLES LTD

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INVITATION LETTER

24/03/2021

Dear Engineers and other interested public,

SUBJECT: INVITATION TO ATTEND A TRAINING COURSE.

We are happy to invite you to participate in seven working days 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 3/05/2021 to 11/05/2021 (weekend excluded) 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, Kigali, Rwanda** place prepared and facilitated by **Hello Renewables Ltd.** Accommodation will be catered by the participants.

Participation Fees: USD 3000 VAT included per trainee (Course Fee)

For any inquiries regarding this course contact us on aphronduwa@gmail.com

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.

Yours Sincerely,

Dr. Samuel Bimenyimana

Tele: + 250785213122



24/03/2021

CEO of Hello Renewables Ltd.

advisor@hellorennewables.com

Kigali, Rwanda

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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.