



VOCATIONAL TRAINING INSTITUTE HOPE FOR A BETTER FUTURE

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📍 Mile 1 Junction, Up-station, Bamenda

Biogas Training Course Outline

1. Introduction to Biogas (Duration: 1/2 Day)

- What is biogas?
- History and applications
- Benefits: environmental, economic, health
- Types of biogas systems (household, institutional, industrial)

5,000 CFA

2. Feedstock & Digester Biology and Biogas Plant Design & Sizing (Duration: 1/2 Day)

- Types of feedstock: animal manure, food waste, crop residues, sewage
- Microbial digestion process (anaerobic digestion)
- pH, temperature, retention time, C:N ratio
- Common challenges in digestion
- Fixed-dome, floating-drum, tubular & plug-flow digesters
- Calculating feedstock input & gas output
- Materials for construction
- Site selection criteria

10,000FRS

3. Construction & Installation (Duration: 2 Days)

- Preparing materials
- Installing the digester
- Gas storage & piping systems
- Safety considerations

18,000FRS

Module 1 & 2 will
be covered in 1 day

Click on the link below or copy it and past in your browser to apply

<https://ee.kobotoolbox.org/x/f3TSvevE>

4. Biogas Utilization (Duration: 1 Day)

- Cooking, lighting, electricity generation
- Upgrading biogas to biomethane
- Use of slurry as organic fertilizer
- Conversion of engines to run on biogas

20,000 CFA

5. Operation & Maintenance (Duration: 1 Day)

- Feeding schedule
- Monitoring gas production
- Handling effluent (bio-slurry)
- Troubleshooting common problems (e.g. low gas, odors)

7,000 CFA

6. Entrepreneurship

- Entrepreneurial Mindset
- Problem Identification
- Market research
- Business modelling and development

NB: Entrepreneurship lesson days will be communicated once the program starts. There are no extra fees for Entrepreneurship.

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