INTRODUCTION TO BIOGAS

SHORT LEARNING PROGRAMME

This Short Learning Programme is aimed at developing the fundamental knowledge about organic waste and the role of anaerobic digestion to extract value from organic waste. In addition, the program sets the foundational knowledge required for more advanced anaerobic digestion courses and provides an introduction to students for other introductory theoretical and practical courses. At the end of this course, participants should understand the present management of organic waste, the potential value inherent in the organic waste, how anaerobic digestion can be used to extract value from organic waste, the existing legislation around organic waste management, and the role of biogas and the by-products of anaerobic digestion within the green economy.

ABOUT

Participants of this course will learn about the principle of converting organic waste to biogas and the application of biogas, as well as the environmental, ecological and socio-economic benefits of this technology pathway.

WHO?

Who should attend:
NQF level 5 students, municipal officials, farmers, consultants, environmental enthusiasts, those looking at reducing their carbon footprint, managing waste and financial sectors looking for an introduction into biogas production.

TOPICS

SECTION 1
- **Waste in South Africa and legislative framework**
- **The science and technology for biogas production**
- **Anaerobic digestion plants**
- **Digester types and components**
- **State of AD technology in South Africa**

SECTION 2
- **Substrate for biogas production**
- **Substrate handling and preparation**
- **Biogas cleaning and application**
- **Digestate management and application**

SECTION 3
- **Pre-feasibility analysis**
- **Design considerations**
- **Basic plant design and sizing**
- **Start-up and operations**
- **Regulatory framework & safety**

Cost: R11 000.00

DURATION

Presented online as a two week course.

Other courses of interest

- **Domestic anaerobic digestion**
- **Commercial anaerobic digestion**
- **Wastewater treatment anaerobic digestion**

For further enquiries: peetstraining@uj.ac.za

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