

Renewable energy technologies and sustainable use of energy resources

ID 8307102100

Time frame:

30.04. - 30.07.2012 (3 months)

Admission Requirements:

- University degree or equivalent
- Several years of professional experience

Language:

Portuguese

Eligible country:

Mozambique

Certificate:

Certificate of advanced training

No. of Participants: 12

Training institution:

Human Capacity Development for Vocational Education and Training (Mannheim)
Käthe-Kollwitz-Str. 15
D - 68169 Mannheim

In cooperation with:

Hessian Centre for Industrial Occupations Promotion, Groß Gerau (Landesstelle Hessen)

For further information please contact:

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Target group:

Teachers and executive personnel from TVET and other relevant institutions (multipliers) with relevant work experience in the field of electrical engineering

Objectives:

On completion of the 2 parts of the advanced training programme, the participants

- will know the relevant technologies for the production and supply of different forms of renewable energies
- will be able to plan and dimension different renewable energy supply systems
- will be able to organise and conduct further training workshops for teaching personnel (act as multipliers)
- will be able to produce media for training on solar/photovoltaic systems

Contents:

Technical contents:

- forms of renewable energy production and their efficiency
- modern electronic systems to convert and supply renewable energies (converter, inverter, control engineering)
- stand-alone operating systems, network operating systems
- selected examples for the planning and dimensioning of a solar energy supply system
- project work on photovoltaic systems: energy production, storage, treatment and supply
- conception of a transfer project

Pedagogical contents:

- practical workshop teaching
- interactive and participant-oriented training
- media didactics
- production of training media (solar box/photovoltaics)
- development of a training course on solar energy/photovoltaics using the solar box as media

Main structure of the training:

- introduction into all RE types
- in-depth training on solar energy

Technical excursions

German language basic course

Methods:

Lectures, project work, excursions