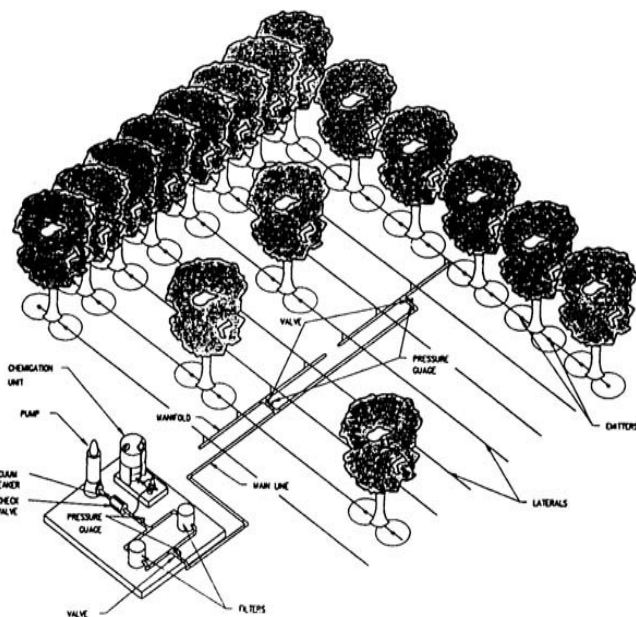


Farm water management techniques



Micro-jet irrigation system installation and planning for orchards



ZAMBIA COLLEGE OF AGRICULTURE MONZE



Irrigation Systems Installation & Farm Water Management (Duration: 1 Week)

**“Empowering Farmers With Smart Water
Technologies for Sustainable Crop Production”**



Contact details and location:
For further details, contact the Principal through the following:

Zambia College of Agriculture-Monze
P.O.Box 660053
Monze

Call/whatsapp: +260 974 105 394
+260 972 023 825
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Email: principal@zcamonze.edu.zm
www.zcamonze.edu.zm

Location:
Southern Province
Monze District
East of Monze town
5 Km along the Monze-Chivuna road.

Course Overview

Efficient water management is essential for increasing crop productivity, ensuring food security, and adapting to climate change in Zambia.

This one-week intensive training equips participants with **practical skills in modern irrigation systems installation and farm water management techniques** suitable for both small-scale and commercial farms.

Designed for **farmers, cooperatives, irrigation technicians, youth agripreneurs, agricultural officers, and farm managers**.

Modules Covered

1. Introduction to Irrigation

Covers the basics of irrigation, importance in modern agriculture, types of irrigation systems, water sources, and factors affecting irrigation efficiency.

2. Drip Irrigation System Installation

Participants learn step-by-step installation of drip lines, filtration systems, pressure regulators, emitter spacing, and maintenance for vegetables, orchards, and field crops.

3. Micro-Jet Irrigation System Installation (for Orchards)

Focuses on orchard irrigation using micro-jets, including layout design, pump selection, emitter placement, and water-saving benefits for fruit trees.

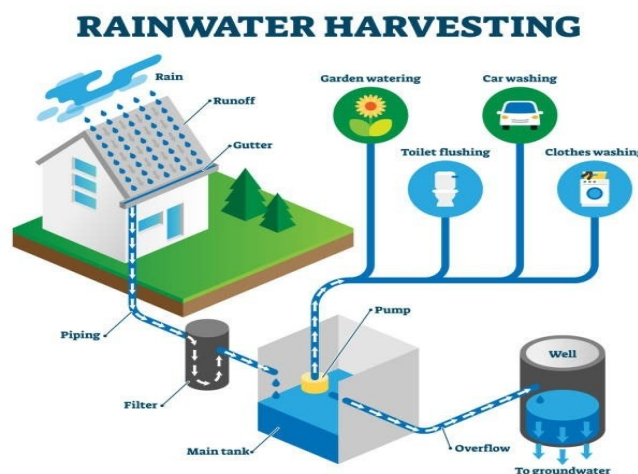
4. Sprinkler Irrigation System Installation

Teaches installation of sprinkler systems, including portable sets, centre pivots, rain-guns, and overhead sprinklers for field crops and lawns.



5. Farm Water Management Techniques

Includes water harvesting methods, soil moisture conservation, mulching, scheduling irrigation, preventing water losses, and designing efficient water distribution networks.



Training Approach

Training combines:

- ✓ On-field installation demonstrations
- ✓ Hands-on practice with pumps, pipes, filters, and irrigation tools
- ✓ Classroom instruction with diagrams, models, and videos
- ✓ Troubleshooting and maintenance exercises
- ✓ Water budgeting and scheduling techniques

Participants finish with **practical competence** in designing and installing efficient irrigation systems.

Accommodation & Meals

All trainees are accommodated comfortably under **CICE**, with access to nutritious meals, study spaces, and farm demonstration sites.

Why Choose This Course?

- Hands-on installation experience
- Training by irrigation specialists
- Access to real farm demonstration systems
- Certificate of Completion
- Essential skills for climate-smart agriculture