

Accommodation & Meals

Participants enrolled in short courses are **accommodated within the College premises** under the **Centre for In-Service and Continuing Education (CICE)**.

Comfortable rooms and **nutritious, well-**

balanced meals are provided throughout the

training period, ensuring a conducive environ-

ment for both study and relaxation.

Our facilities also offer **secure lodging, dining**

services, and access to recreational areas, giv-

ing trainees a complete on-campus experience

during their stay.

Contact details and location:

For further details, contact the Principal through the following:

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Location:

Southern Province

Monze District

ZAMBIA COLLEGE OF AGRICULTURE

MONZE



Farm Structures Training Programme (2 Weeks)



Practical Skills in Farm Planning, Design, and Construction.

- Training for sustainable development -

Course Overview

This two-week hands-on training equips participants with technical and practical knowledge in **designing, constructing, and managing essential farm structures**.

The course emphasizes the importance of appropriate design, orientation, and use of materials to ensure durability, functionality, and cost-effectiveness in agricultural enterprises.

Participants will gain experience through **field demonstrations, mini construction exercises, and design simulations** guided by professional instructors.

Training Objectives

By the end of the training, participants will be able to:

- Design and construct various **livestock and grain storage structures** suitable for local conditions.
- Understand **stocking densities and space requirements** for different animal housing systems.
- Apply principles of **farmstead planning and building orientation** for efficiency and comfort.
- Ensure **proper post-harvest storage and handling** of grains to minimize losses.

Course Modules

Livestock Structure Design and Construction

Participants learn the principles of designing and constructing livestock structures such as **cattle kraals, pigsties, goat pens, poultry houses, and milking parlors**. Emphasis is placed on proper ventilation, drainage, materials selection, and animal welfare.

□ Caption: “Hands-on skills in livestock housing design and construction.”

2 Livestock Stocking Density

This module covers recommended **space and stocking rates** for various livestock species (poultry, pigs, goats, cattle). Participants will learn how to calculate animal density, improve comfort, and enhance productivity.

□ Caption: “Optimizing space for animal health and productivity.”

3 Grain Storage Structure Design

Focuses on the design and construction of **traditional and improved grain storage systems** such as silos, cribs, and barns. Trainees learn about material selection, moisture control, and pest prevention.

□ Caption: “Designing durable and pest-proof grain storage structures.”

4. Stacking Patterns of Grain Bags

Participants will learn **proper stacking techniques** for different storage facilities to ensure safety, prevent contamination, and maintain grain quality.

□ Caption: “Smart stacking for effective space use and quality preservation.”

5 Farmstead Structures Orientation

Covers **farm layout planning** and proper orientation of buildings such as offices, workshops, stores, and livestock units. Emphasis is placed on **sunlight direction, wind flow, drainage, and accessibility** for optimal farm management.

□ Caption: “Planning efficient farm layouts for productivity and sustainability.”

Who Should Attend

- Farmers and livestock producers
- Agricultural students and graduates
- Extension officers and cooperative members
- Farm planners and estate managers

Duration: 2 Weeks

Venue: Zambia College of Agriculture – Monze

Certification: Certificate of Participation