SET
Skills for Employment Tanzania

Curriculum

Feedlot Supervisor

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DISCLAIMER

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Swisscontact

Swisscontact works in Tanzania as a facilitator in skills development to complement government efforts in youth empowerment.

Economic, social, and academically disadvantaged youth are supported through tailor-made vocational skills development opportunities to increase their employment chances and entrepreneurship opportunities. Projects are guided by a unique youth and market-driven learning group model, which is focused on sub-sectors and jobs which have a potential to offer (self-)employment opportunities. These are agriculture/agribusiness, and other rural trades or services.

Swisscontact projects in Tanzania employ an Inclusive Markets system approach which considers the limits and opportunities of the existing vocational skills development system. Projects seek to improve the prospects of self-employment among the youth through a sustainable and systemic contribution to improved access, relevance, and quality of vocational skills development. Since ownership is critical for sustainability, our projects apply a participatory approach which involves joint action planning with partners.

Introduction for Trainers

This training course is designed to prepare participants for supervisory roles in livestock feedlot operations, with a focus on cattle and goats. The training targets young Tanzanians—particularly those from rural and peri-urban areas—who have basic education and an interest in livestock farming or agribusiness. Many of these participants face economic barriers and limited access to formal training. This course equips them with practical skills to manage feedlot operations and contribute to profitable and sustainable meat production.

This training is part of Swisscontact's broader initiative to improve youth employment opportunities by supporting vocational training that is practical, market-driven, and responsive to local economic activities. The course places strong emphasis on hands-on experience, with 70% of the learning hours dedicated to practical work in real or simulated feedlot environments.

By the end of this 16-week course, learners will be able to supervise feedlot operations, ensure the health and welfare of livestock, manage feeding and hygiene routines, keep accurate records, and communicate effectively with feedlot teams and management. Participants will also explore related opportunities such as animal supply, basic extension services, or entering the market as livestock brokers.

As trainers, your role is essential in helping learners build both technical competence and the confidence to perform as responsible supervisors in a working feedlot environment.

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Course information

Training Objectives

This training will equip participants to work as Feedlot Supervisors for cattle and goats. They will gain practical and theoretical knowledge in animal nutrition, feedlot operations, animal health, hygiene, staff supervision, and environmental responsibility. After completing the training, participants may be employed as feedlot supervisors or start small-scale feedlot operations.
The training also opens secondary economic opportunities such as:

- Providing feedlot supplies (e.g. feed, supplements, veterinary equipment)
- Providing basic extension services e.g. advice on animal healthcare and feeding
- Linking buyers and sellers as brokers
- Collaborating with nearby communities on animal health and grazing issues

Learning Outcomes

By the end of this course, the learner will be able to:

1. Explain the roles and responsibilities of a feedlot supervisor
2. Understand ruminant digestion and nutritional needs for cattle and goats
3. Identify different types of feed and formulate appropriate feeding plans
4. Perform routine feedlot operations such as onboarding animals, daily inspections, and growth monitoring
5. Maintain hygiene standards for feeding areas, pens, and water points
6. Implement animal health protocols, including vaccination, parasite control, and treatment of sick animals
7. Keep records of feedlot operations, including feeding, health, and inventory data
8. Communicate effectively with staff, management, and community members
9. Supervise staff, allocate tasks, and manage incidents and attendance
10. Practice environmental responsibility, including managing manure and preventing overgrazing
11. Handle emergencies such as injured or missing animals, fires, and natural disasters

Job profile: A feedlot supervisor assesses and sorts animals; provides and controls appropriate nutrition for cattle and goats; measures the progress of animal growth; monitors the health and welfare of animals while ensuring a safe environment for animals and workers by following operating protocols, supervising people, keeping records and reporting on operations, and taking corrective action when needed to ethically maximise meat quality and quantity for the market and ensure business profitability and sustainability.

Training Plan

Training model: This training is delivered at a feedlot premises, with the theory training being conducted in a training room or venue and the learners being actively involved in day-to-day activities on the feedlot, learning to apply the theory as they go. Topics may be delivered in different sequence, depending on the activities of the feedlot at the time.	
Practical: 80%	**Theory:** 20%
Group size	Maximum 20 trainees
Training venue	This training may be delivered at an operational feedlot that also provides a suitable space for classroom-based theory sessions, alongside access to practical feedlot facilities.
Course duration	16 weeks | 4 months | 80 days | 560 hours

Entry requirements	• Any of the following:
	  ○ Degree in Animal Science
	  ○ Diploma in Animal Husbandry
	  ○ Certificate in Animal Health and Production
	  ○ Qualification in Veterinary Medicine
	  ○ 3 years of work experience on a cattle/goat farm and minimum Form 4 education
	• Up to the age of 25 years

Attendance:	80% needed for certificate of attendance

Course Content

Course content:	Theory hours	Practical hours	Total
Module 1: Animal Feeding	26	68	94
Module 2: Routine feedlot activities	11	66	77
Module 3: Feedlot hygiene	6	48	54
Module 4: Animal Health	21	76	97
Module 5: Feedlot administration	9	42	51
Module 6: Communicate feedlot operations	13	46	59
Module 7: Supervise feedlot staff	14	42	56
Module 8: Practice Environmental responsibility	4	24	28
Module 9: Handle emergencies	8	38	46
Total	**112**	**448**	**560**

Elective modules: to be developed in future

- Module 10: Design a feedlot
- Module 11: Acquire feedlot stock animals

Assessment

The emphasis is on practical workplace assessment to ensure that trainees acquire practical and applied skills for the job.

1. **Practical, formative assessment**: a practical Assessment Logbook, lists the practical on-job assessments that have been included in the curriculum. These will be signed off by the trainer in the workplace once the trainee has conducted the practical task to the satisfaction of the trainer. This is weighted at 60 – 70% of the total assessment mark.
2. **Final summative assessment**: trainees will write a theory exam at the end of the course. This is weighted at 30 – 40% of the total assessment mark.

Training Programme

Training days will include both theory and practical lessons. The timetable should fit around the daily work of the feedlot. For example, if feeding and cleaning must happen in the early morning, then lessons can take place afterwards for about two hours.

There are two types of lessons:

- **Theory lessons** with key knowledge concepts being taught, and demonstrations of feedlot tools and activities
- **Practical lessons** where learners practise real feedlot tasks

Learners will take part in daily feedlot activities as part of their training. They will help with tasks such as caring for animals, feeding, cleaning, and handling animals that are arriving or leaving the feedlot. They will complete their logbooks during the course of their training, logging what they are learning and completing the exercises required.

The following suggested Training Plan is a guideline on how to teach the curriculum, with modules integrated so that various feedlot activities can be learned and applied as soon as possible to get the learners actively involved in the operations of the feedlot. Trainers may devise and follow their own training schedules based on their needs and context of their feedlots or training environment.

Suggested Training Plan

Week 1	Week 2	Week 3	Week 4
Orientation **Module 1:** Animal Feeding **Module 2:** Routine Feedlot Activities	**Module 1:** Animal Feeding **Module 2:** Routine Feedlot Activities	**Module 1:** Animal Feeding **Module 2:** Routine Feedlot Activities	**Module 1:** Animal Feeding **Module 2:** Routine Feedlot Activities
Week 5	**Week 6**	**Week 7**	**Week 8**
Module 3: Feedlot Hygiene **Module 2:** Routine Feedlot Activities	**Module 3:** Feedlot Hygiene **Module 2:** Routine Feedlot Activities	**Module 4:** Animal Health **Module 2:** Routine Feedlot Activities	**Module 4:** Animal Health **Module 2:** Routine Feedlot Activities
Week 9	**Week 10**	**Week 11**	**Week 12**
Module 4: Animal Health **Module 2:** Routine Feedlot Activities	**Module 4:** Animal Health **Module 5:** Feedlot Administration	**Module 5:** Feedlot Administration **Module 6:** Communicate Feedlot Operations	**Module 5:** Feedlot Administration **Module 6:** Communicate Feedlot Operations
Week 13	**Week 14**	**Week 15**	**Week 16**
Module 7: Supervise Feedlot Staff	**Module 7:** Supervise Feedlot Staff	**Module 8**: Practice Environmental Responsibility	**Module 9:** Handle Emergencies **Assessment**

Curriculum

Module 1: Animal Feeding

Topic	Content	Time

1.1 Ruminant digestion	• The Ruminant Digestive System
	  ○ Parts identification
	  ○ Function of parts
		1 hour

1.2 Animal nutrition	• Nutrients available in feeds
	  ○ Water
	  ○ Vitamins
	  ○ Minerals
	  ○ Fats/oils
	  ○ Protein
	  ○ Carbohydrates
	• Nutritional needs: (Nutrition Requirements for Cattle/goats: NRC)
		3 hours

1.3 Types of feed	• Roughage
	  ○ Pasture
	  ○ Hay and silage
	• Concentrated feeds:
	  ○ High energy:
	  ▪ Bran: maize, rice, other
	  ▪ Molasses
	  ▪ Others
	  ○ High protein feeds:
	  ▪ Oil production byproducts: oil cake: soya, sunflower, cottonseed, coconut, peanut, others
	  ▪ Non-organic: Urea
	• Animal Protein sources:
	  ○ Fish meal
	  ○ Meat and Bone Meal (MBM)
	  ○ Blood meal
	  ○ Insect larvae (Black Soldier Fly/BSF)
	  ○ Feather meal
	  ○ Other
	• Additives:
	  ○ Salt
	  ○ Amino acids
	  ○ Rumen modifiers
	  ○ Limestone
		5 hours

Topic	Content	Time
	○ Toxin binders	
1.4 Pastures	• Types of pasture: ○ Grasses for grazing ○ Grasses for hay and silage ○ Legumes • Poisonous and undesirable plants • Invasive Alien Species (IAPs) • Land preparation for pastures ○ Clearing by burning, cutting, or spraying ○ Thinning excessive trees/forest • Pasture planting • Pasture maintenance: irrigation, fertilizing, weeding • Harvesting: manual or mechanical	16 hours
1.5 Hay and silage	• Baling • Silage: elements, process, equipment • Storage • Recording stock/quantities	12 hours
1.6 Grazing plans	• Principle of rotational grazing • Land carrying capacity • Stocking rate: animal units and calculations • Soil types: effect on growth and nutrition of pasture • Pasture inspection • Risks and contaminants: parasites, pests, unwanted plants, grass height • Prevention of overgrazing and erosion (loss of topsoil)	10 hours
1.7 Feed formulation	• Grass and silage quality testing • Analysis, results, and application: calculation of Animal Balanced Meal: ABM • Feed formulation: basic feed elements/components proportions • Optimum feed formulations: customised by feed manufacturers to local ranch/feedlot conditions	17 hours
1.8 Manage concentrated feed	• Purchase quantity: storage availability, usage rate, lead time for delivery	12 hours

Topic	Content	Time
	• Receiving: FIFO principles • Record keeping for basic stock management • Storage: security, housekeeping, pests • Issuing: FIFO	
1.9 Design and execute a feeding plan	• Calculate the full diet per animal: formula • Weekly feeding plans • Forecast consumption and place timely orders	10 hours
1.10 Monitor feeding patterns and adjust feeding plans and practices	• Feeding equipment: troughs, hayracks, drinkers • Application of feeding plan • Feeding patterns: behaviour of dominant animals, dormant animals, underfeeding, selective feeders, off-feed animals • Revision of plans to ensure homogeneous consumption	8 hours

Module 2: Routine Feedlot Activities

Topic	Content	Time
2.1 Onboard incoming animals	• Offloading procedures • Health procedures: spraying, deworming • Identification marking; tagging, branding • Sorting • Weighing and recording • Quarantine principles • Feeding: hay and water	11 hours
2.2 Daily headcounts	• Head counting procedure/s • Who conducts and audits headcounts • Recording	13 hours
2.3 Animal inspections	• Location of inspections • Who conducts inspections • Frequency of inspections • Observation elements: behaviour, condition, smell, skin, urination pattern, faeces consistency and appearance, signs of disease	14 hours

Topic	Content	Time
	(nose, eyes), sound – sneezing, wheezing/breathing behaviour • Respond to findings of animal inspection: isolation, first aid, treatment, and others.	
2.4 Weight recording	• Facility and equipment • Procedures for weighing and recording in the field book	14 hours

2.5 Growth performance analysis	• Formatted Excel spreadsheets
	• Data entry from field weights recorded
	• Analyse results: variability, standard deviations
	• Identify special causes of variability and address causes (behaviour, feeding, digestion, other)
	• Actions based on results:
	  ○ Corrective action
	  ○ Market readiness (promotion and demotion)
		14 hours

2.6 Off-board animals	• Segregation and return from the field • Lairage procedures • Transportation arrangements • Documents: records, transport permits • Loading procedures	11 hours

Module 3: Feedlot Hygiene

Topic	Content	Time

3.1 Feed and water stations	• Importance of hygiene at feed and water points: bacterial growth; algae, debris, frogs, and insects
	• **Cattle**:
	  ○ **Water points**: flush water out, clean and refill; water treatment (disinfectant – V-Rid)
	  ○ **Feeding**: troughs: cleaning/sweeping; dispose of feed remnants
	• **Goats**:
	  ○ **Water points**: empty, manual washing, refill; water treatment (disinfectant – V-Rid)
		11 hours

Topic	Content	Time
	○ **Feeding**: clean pens: sweeping, shovelling, dispose of debris, wash with water, disinfect	
3.2 Control weeds and undesirable plants	**Weeds**: • **Types of weeds**: identification • **Location**: in and under pens; in paddocks, infrastructure • **Removal**: manual, mechanical, no use of herbicides, collect, destroy **Undesirable plants:** • Why they are undesirable: ○ **Invasive Alien Plants** (IAPs) ○ **Toxic plants:** chemical poison for animals • **Identification**: *Lantana camara*, the apple of Sodom (*Calotropis procera*), Bug weed (*Solanum mauritianum*) • **Removal**: manual, mechanical, no use of herbicides, collect, destroy	12 hours
3.3 Manure management	• Health concerns about manure accumulation • Volume/quantity of manure produced by one animal per day • **Removal processes**: ○ **Cattle**: tractor, trailer, collection, removal, storage ○ **Goats**: mechanical pen cleaning; under the pens, piling, tractor removal, storage • **BMP (Best Management Practice):** ○ use as fertilizer for crops on own farm; sell or give to local farmers for horticultural crops; create community network or liaison for collection and distribution ○ Fish feed ○ Insect production – e.g. Black Soldier Flies (BSF)	16 hours
3.4 Pest control	• **Flies**: ○ Fly traps: different designs and baits • **Rodents**: ○ Rodents: traps: different types; making pipe traps; disposal of trapped/dead rodents	13 hours

Module 4: Animal Health

Topic	Content	Time
4.1 Biosecurity protocols for disease control	What is biosecurity? Why is it important: use and importance of biosecurity controls How to conduct/implement biosecurity controls for feedlots: • **Prevention**: restriction of entry, quarantine, isolation, vaccination, parasite control • **Handling**: visitor management, contact with animals other than cattle or goats • **Sanitation**: cleaning pens, separation of equipment for feed and manure handling	12 hours

4.2 Animal vaccinations	• Diseases that require vaccination:
	  ○ **Cattle**: foot and mouth, CBPP, anthrax, Lumpy Skin Disease (LSD)
	  ○ **Goats:** CCPP, anthrax, East Coast fever, *enterotoxemia*, black quarter
	• Standard vaccines and protocols
	• Vaccination plans
	• Facilities and equipment
	• Procedures: chute, crush
	• Health and safety
	• Disposal of medical waste
	• Record keeping (link to Mod 5: Admin)
		12 hours

4.3 Parasite control	• **Types of parasites**: internal and external
	  ○ **Internal**: worms
	  ○ **External**: ticks
	• **Detection of parasites:** signs and symptoms
	• **Control measures**:
	  ○ **Internal** parasites: deworming protocols
	  ○ **External** parasites: dipping or spraying protocols
		12 hours

4.4 Disease detection and containment	• **Common disease symptoms**
	  ○ Bacterial
	  ○ Viral
	  ○ Protozoal (blood parasites)
	  ○ Fungal
	  ○ Non-infectious diseases: acidosis, bloat, poisoning
		16 hours

Topic	Content	Time
	• **Head-to-tail inspection** process: nose, mouth, body, lift tail, lift limbs • **Physical symptoms** to look for discharge/mucous from nose, drooling, sneezing, eyes, limping, tremors, breathing, genital conditions, excessive ticks, smell • **Pen or paddock indicators**: droppings, smell, urine, mucous • **Containment**: separate, isolate, clinic/sick pen	

4.5 Treatment for sick and injured animals	• **Injury treatment/Veterinarian First Aid:**
	  ○ **Wounds**: disinfecting, treatment, covering, administering necessary drug doses: antibiotic, analgesic, anti-inflammatory depending on the case
	  ○ **Abscess**: lance and drain, disinfect, cover, antibiotic and analgesic dose
	  ○ **Fractures**: set fractures and apply casts, anti-inflammatory, and analgesic doses
	• **Treatment of illness, conditions, or diseases**:
	  ○ **Bacterial diseases**: antibiotics
	  ○ **Viral diseases**: treatment of symptoms and secondary infections
	  ○ **Fungal conditions**: anti-fungal
	  ○ **Parasites and protozoa**: antiprotozoal
	  ○ **Poisoning and toxins**: anti-toxins
	  ○ **Bloat**: protocols
	  ○ **Acidosis**: protocols
	  ○ **Surgical interventions** e.g. hernia
	  ○ **Orf** (herpes-like disease): isolation, scrape the skin to remove lesions
		13 hours

4.6 Postmortem on dead animals	• What a postmortem is
	• **Reasons for postmortem analysis**:
	  ○ Forensic objective and recording of cause of death
	  ○ PM report per animal
	  ○ Data analysis
	• **Procedures for PM**:
	  ○ Transport animal to the morgue
	  ○ OHS and hygiene protocols: PPE
	  ○ Tools and equipment: scalpels, knife,
	  ○ External examination
	  ○ Internal exam: organs, lungs
	  ○ Cleaning
		10 hours

Topic	Content	Time
	○ Disposal of carcass and PPE • **Recording**: photographs and PM report; update stocks, recommend countermeasures based on findings	
4.7 Animal health records	**Types of animal health records:** • **Field book** to capture field data to then be transferred to relevant specialist book in admin processes • Vaccination book • Treatment book • Postmortem record file	12 hours
4.8 Manage Veterinary supplies	• Types of supplies: ○ Medicines ○ Vaccines ○ Equipment ○ Coolboxes and icepacks • Stock procedures ○ Receiving and recording ○ Storage – FIFO and expiry dates ○ Security protocols (esp for drugs) • Cold storage • OHS practices: PPE, safe handling of medical supplies • Responsible disposal of medical waste and used supplies	10 hours

Module 5: Feedlot Administration

Topic	Content	Time
5.1 Feedlot records	• Overview of feedlot records and the relationship between them. ○ Animal health records ○ Animal performance records: weight ○ Feed records ○ Inventory: livestock, feed, medical, equipment, other • Form of records: ○ Excel spreadsheets/templates, files, books	14 hours

Topic	Content	Time

	• Inventory/stock-taking procedures and protocols for
	  ○ Cattle and goats: how, how often, when
	  ○ Feedstock
	  ○ Other assets e.g. med supplies, equipment, etc.
	• Recording: entry of relevant data into different records	

5.2 Feedlot suppliers	• **Types of external suppliers**:
	  ○ Feed suppliers
	  ○ Veterinary services
	  ○ Agro shops
	  ○ Animal suppliers
	• **Internal suppliers**:
	  ○ Workshop
	  ○ Transport
	  ○ Human resources admin
	• **Procurement/engagement procedures**:
	  ○ Quotations, orders
	  ○ Requisitions; internal orders
		13 hours

5.3 Herd Management Software (HMS)	• What is HMS • Why to use HMS • Selection of HMS: criteria, functions, cost, application in TZN context • How to use HMS	12 hours
5.4 Feedlot facility maintenance	**Routine maintenance for sound infrastructure**: • **Buildings**: roofing, flooring, walls, lighting, piping • **Pens**: wooden infrastructure • **Equipment**: pumps, scales, etc: servicing, cleaning, minor repairs • **Tools**: cleaning, storage • **Fencing**: repairs **General housekeeping**: • Cleaning • Tidying of facilities and equipment • Rubbish management	12 hours

Module 6: Communicate Feedlot Operations

Topic	Content	Time

6.1 Operational feedback from feedlot staff	• Feedlot team roles and reporting responsibilities
	• Types of feedback: daily information on:
	  ○ Weather/conditions
	  ○ Animal Health
	  ○ Pasture conditions
	  ○ Feed
	  ○ Incidents, accidents, non-ordinary events
	• Analyse incoming information and take action:
	  ○ Issue instructions
	  ○ Coordinate activities between teams
	  ○ Contact suppliers e.g. vets
	  ○ Inform management/owners
	  ○ Inform authorities
		15 hours

6.2 Performance reports	• Analysis of data in individual performance reports:
	  ○ ADG: Average Daily Gain
	  ○ FCR: Feed Conversion Rate
	• Consolidate individual reports into a collective report:
	  ○ General trends
	  ○ Outliers: special causes of variation
	• Recommendations and actions
		16 hours

6.3 Operational feedback to management or owners	• Operational report: frequency of reporting (e.g. weekly or monthly)
	  ○ Growth/performance records
	  ○ Animal inventory (onboarding, offboarding, current numbers)
	  ○ Animal health and condition
	  ○ Field conditions
	  ○ Inventory
	  ○ Exceptional events
	  ○ Future events
	  ○ Actions taken with rationale
		10 hours

6.4 Market trends and conditions	• Information on good prices for animals available for purchase • Market prices of animals to be sold • Information on current health issues for livestock e.g. disease outbreaks	8 hours

Topic	Content	Time
	• Weather patterns and exceptions e.g. *el Nino; la Nina* • Methods to gain market intel: WhatsApp groups, mainstream media, farmer networks, visiting auctions	
6.5 Relationships with local communities & response to community issues	**Managing relationships and conflicts with local community with relation to**: • Communal grazing and encroachment • Engage with local farmers and communicate on issues e.g. infectious diseases, tick plagues, bird seasonal patterns • Buy and sell to local farmers: farm inputs, animals • Employ from the local community • Sell/provide manure to local farmers or community food gardens **Maintain relationships with local authorities**: • Agricultural authorities • Police • Emergency services (fire; disaster management; hospitals) • Tribal leaders	10 hours

Module 7: Supervise Feedlot Staff

Topic	Content	Time

7.1 Supervise staff	• Weekly planning of operational activities: Work plans
	• Weekly staff meetings:
	  ○ Managers and supervisors (minuted)
	  ○ Supervisors and operations staff (not minuted)
	• Allocation of work according to work plans, weather, etc.
	• Issuing instructions to staff
	• Follow up on work performance: timely, quality, completion, cleaning up, use of PPE, safe working procedures
		14 hours

Topic	Content	Time
	• Manage performance issues: productivity, motivation, attitude, poor work performance, poor timekeeping, not following instructions • Development plans and training opportunities for staff	
7.2 Staff timesheets and work attendance	• Weekly completion of time sheets for HR to prepare payment. • Note and record absenteeism and leave	12 hours
7.3 Staff incidents and situations	**Dealing with staff incidents and situations** • Mistreatment of animals • Conflict • Substance abuse; alcohol • Absenteeism • Sleeping on duty • Theft • Sexual harassment	8 hours

7.4 Occupational health and safety on feedlots	• **Safe work procedures and practices:**
	  ○ Safe animal handling practices
	  ○ Safe chemical handling protocols (e.g. disinfectants, acaricides, meds, others)
	  ○ Safe handling of equipment
	• Safety equipment and PPE
	• Procedures in case of emergencies e.g. fire, accidents
	• **First Aid:**
	  ○ Maintain a properly stocked first aid kit
	  ○ Apply basic first aid for workplace injuries
	• **Fire Safety**
	  ○ Extinguishers: use and maintenance/servicing
	  ○ Basic firefighting procedures
		18 hours

7.5 Staff recruitment	• Reading and evaluating CVs • Participating in staff interviews; types of questions, what types of questions to ask, standard questions to ask • Selection of preferred candidate	4 hours

Module 8: Practice Environmental Responsibility

Topic	Content	Time
8.1 Overgrazing	• **What is overgrazing**: eating more than the leaf of the grass; eating stems and roots, leading to the death of the plant and bare ground. • **Why overgrazing is an environmental concern;** leads to erosion, desertification, loss of grasses and biodiversity • **Prevention of overgrazing**: grazing plans • **Restore overgrazed areas**: resting, replanting/ seeding the area for recovery; application of manure if needed	9 hours
8.2 Responsible disposal of carcasses	• Biological and health hazards of carcasses • **Disposal pit:** o Appropriate size, depth and location o Sealable/closable to prevent flies and predators; contain any biological hazards • Incineration	9 hours
8.3 Responsible disposal of hazardous waste	• Types of hazardous waste on a feedlot • Biological risks of hazardous waste • Incineration of medical waste	10 hours

Module 9: Handle Emergencies

Topic	Content	Time
9.1 Animal injuries and incidents	• **Injuries**: animal first aid; veterinarian services, euthanasia in extreme cases • **Incidents**: o **Examples**: stuck in mud, tangled in fencing, collision with vehicle or mechanical equipment, electrical shocks o **Response**: based on the type of incident and condition of an animal: options include; rescue and recovery, treatment, euthanise	12 hours

Topic	Content	Time
9.2 Missing animals and stock theft	**Missing animal protocol**: • Inform/report security team and herdsmen • Report as missing after 24 hours • Look for carcasses or animal pieces at the location where the animal went missing • Record missing animal **Stock theft:** • Indicators of theft: no signs of an animal; possible signs of entry (cut fences), vehicle tracks, community intel, bullet casings • Report to authorities • Record animal as stolen	13 hours

9.3 Safety and security risks	• Risk assessment on feedlot
	• **Addressing safety risks:**
	  ○ fire breaks; fire drills
	  ○ lightning rods
	• **Addressing security risks:**
	  ○ access control or restriction; gates
	  ○ security guard/s
		11 hours

9.4 Natural incidents and disasters	**Response to natural incidents or disasters:** • **Bush fires**: firefighting protocol and equipment; alert authorities • **Predators**: stray dogs • **Snakes**: identify habitat; prevention methods • **Poison**: natural plants: eliminate; response: first aid.	10 hours

Facilities and Equipment

Facilities

1 Theory training venue

A classroom or meeting space is required where trainees can participate in theoretical lessons, group discussions, and presentations. This may be:

- A converted office or storeroom at the feedlot itself – or in the administration/management building (training centre)
- A classroom at an agricultural college or vocational training centre
- A training hall at a government extension office or NGO facility

The theory venue should have:

- Chairs and tables for all participants
- A whiteboard or flipchart
- Good ventilation and lighting
- Access to electricity for projector or laptop use

2 Practical training site

Practical training must take place at an operational or demonstration feedlot that includes both cattle and goat handling facilities. This site should allow access to:

- Animal pens and handling areas
- Feed and water stations
- Manure storage and removal systems
- Equipment for weighing, feeding, cleaning, and veterinary care
- Safe space for observing and practising animal handling, vaccination, deworming, and inspections
- Pasture areas for grazing and weed control demonstrations (if possible)

If a fully operational feedlot is not available nearby, partnerships should be made with local farmers or agricultural colleges to use their facilities during the training period.

3 Support facilities

Additional facilities required to deliver the training effectively:

- **Storage space** for training equipment, animal health kits, PPE, and feed samples
- **Clean water supply** for handwashing, cleaning, and animal hydration
- **Toilets and sanitation** for trainees and staff (separate for male and female where possible)
- **Biosecurity controls** such as footbaths and restricted access signs at entry points
- **Animal treatment area or crush** for safely practising procedures like vaccination or inspection
- **Secure carcass disposal area** or designated disposal pit for postmortem training or demonstrations
- **Emergency first aid area or corner** with a stocked kit and fire extinguisher available

Tools and Equipment

Basic information needed for costing	
Curriculum	Feedlot Supervisor
Number of weeks	16
No of days	80
Number of participants	20
Number of teachers	1
Number of groups	4 or 5

Item	Quantity	Purpose/Use
Classroom facilities		
Flipchart stand or whiteboard	1	For theory lessons and group work presentations
Flipchart paper (rolls)	3	For visual aids, lesson summaries, diagrams
Permanent markers (assorted colours)	3	Writing on flipchart or whiteboard
Notebooks and pens	20	For learner note-taking
First Aid Kit	2	Emergency use during practical sessions and in the feedlot
Feedlot Operational Equipment, Tools and Consumables		
Vaccine gun/applicators	5	Administering vaccines

Item	Quantity	Purpose/Use
Drenching gun	5	Administering oral dewormers
Sprayers or dip applicators	5	External parasite control (ticks, flies)
Disposable gloves	100	For handling animals, medical and hygienic procedures
Animal treatment kit	5	Includes bandages, antiseptic, syringes (demo), scissors
Cool box with ice packs	2	Cold storage of vaccines and medicines
Medical waste bin with lid	2	Safe disposal of sharps and medical waste
Animal health record books/forms	20	Recording vaccinations, treatments, inspections
Postmortem knives/scalpels (demo)	2	For postmortem demonstrations
Protective clothing (aprons, boots)	10	Used during animal health and PM demonstrations
Plastic sheets or table	1	Postmortem surface
Biohazard waste bags	10	Disposal of postmortem remains
Feed sample kits (sealed)	1	Identification and testing of feeds
Digital animal scale	1	Weighing animals and recording growth
Weigh tape (backup or for goats)	5	Alternative method for weight estimation
Buckets and scrubbing brushes	10	Cleaning feed and water stations

Item	Quantity	Purpose/Use
Water troughs (demo or access)	2	Demonstrate maintenance and cleaning
Feed troughs (demo or access)	2	Demonstrate maintenance and cleaning
Weed slasher or hoe	5	Manual weed control
Wheelbarrow and spade	2	Manure collection and transport
Rake and shovel	5	Feedlot pen cleaning and manure handling
Fly traps (demo kits)	5	Control flies in feedlot
Rodent traps (pipe or snap traps)	5	Rodent control
Footbaths	2	Disinfection at entry points
Disinfectant and spraying bottles	4	Sanitise equipment and areas
Signage: 'Authorised personnel only'	2	Restrict access to sensitive areas
Designated disposal pit (dug or marked)	1	Disposal of carcasses and medical waste
Fire extinguishers	2	Fire emergency preparedness
Emergency signage	2	Mark exits and emergency contacts
First aid training dummy or poster	1	Demonstrate emergency first aid
Feed sample display kit (sealed)	1	Identification of feed types (roughage, concentrates, additives)
Sample animal health record books/forms	20	Practice filling out animal records (field books, vax, treatment, etc.)

Item	Quantity	Purpose/Use
Animal anatomy charts (laminated)	2	For teaching ruminant digestion and health topics
Hay bales (mini/demo size if possible)	3	For hay handling and baling demonstrations
Silage demo drum/barrel (small)	2	For teaching silage production and storage
Feed mixing container (bucket or basin)	5	Group activity for feed formulation and mixing
Measuring tools (scoops/cups)	5	Measuring and mixing feed ingredients
Manual fly traps and rodent traps	5	Practical on pest control and trap making
Veterinary kit (demo set)	1	Includes syringes (demo), gloves, safe disposal box, thermometer, etc.
PPE for practical (overalls, gumboots, gloves, safety glasses)	10	Used during animal handling and treatment demonstrations
Mock-up or access to feedlot space with cattle/goats	1	Essential for real-world practice: inspections, feeding, hygiene, etc.
Buckets, scrapers, shovels	5	For pen cleaning and hygiene sessions
Postmortem demonstration kit (if applicable)	1	Includes gloves, scalpel (blunt/demo), photos of organs for learning
Laptop and projector (optional)	1	For presentations, videos, spreadsheets, and data input

Item	Quantity	Purpose/Use
Printed worksheets and handouts	20	For assessments, case studies, and data entry exercises
Sample herd management software (demo or free version)	1	Teaching HMS data entry and report generation
Risk assessment forms and checklists	20	For use in environmental and safety modules

Basic information needed for costing							
Curriculum			Feedlot supervisor				
Number of days			80				
Number of participants			20				
Number of teachers			1				
Number of groups			5				
No	**Description**	**Start-up kit**	**Units**	**Number of units**	**Cost/Unit**	**Frequency of days**	**Total**
5	Stationary						
	Flipchart stand/whiteboard	No	piece	1	15,000	1	15,000
	Rent desks/tables	No	piece	11	5,000	80	4,400,000
	Rent chairs	No	piece	21	500	80	840,000

	Flipchart paper (A1)	No	roll with 25 sheets	3	15,000	1	45,000
	Permanent markers	No	box with 12 per box	3	6,000	1	18,000
	Exercise books (A4, lined)	No	piece	1	3,000	20	60,000
	Pens	No	box with 50 per box	1	10,000	1	10,000
	Sub-total						**5,388,000**
6	Consumables						
	Disposable gloves	No	box of 100	1	20,000	1	20,000
	Plastic sheets or table	No	piece for all	1	60,000	1	60,000
	Biohazard waste bags	No	piece per group	2	10,000	5	100,000
	Feed sample kits (sealed)	No	piece for all	1	600,000	1	600,000

	Fire extinguishers (requires recharge after use)	No	piece for all	1	150,000	2	300,000
	Animal health record books/forms	No	piece per person	21	2,500	1	52,500
	Printed worksheets and handouts	No	piece per person	21	3,000	1	63,000
	Risk assessment forms and checklists	No	piece per person	21	3,000	1	63,000
	Hay bales	No	sheets	3	6,000	1	18,000
	Silage (in demo drum)	No	piece for all	2	223,000	1	446,000
	Sub-total						**1,722,500**
7	Equipment						
	Vaccine gun/applicators	Yes	piece per group	5	75,000	1	375,000
	Drenching gun	Yes	piece per group	5	20,000	1	100,000

	Sprayers or dip applicators	Yes	piece per group	5	40,000	1	200,000
	Animal treatment kit	Yes	piece per group	5	900,000	1	4,500,000
	Cool box with ice packs	Yes	piece for all	1	65,000	2	130,000
	Medical waste bin with lid	Yes	piece for all	1	50,000	2	100,000
	Postmortem knives/scalpels	Yes	piece for all	1	25,000	2	50,000
	Protective clothing (apron, boots)	Yes	piece per group	2	40,000	5	400,000
	Digital animal scale	Yes	piece for all	1	1,200,000	1	1,200,000
	Weigh tape (backup or for goats)	Yes	piece per group	5	20,000	1	100,000
	Buckets and scrubbing brushes	Yes	piece per group	2	10,000	5	100,000
	Water troughs	Yes	piece for all	1	70,000	2	140,000

	Feed troughs	Yes	piece for all	1	90,000	2	180,000
	Weed slasher or hoe	Yes	piece per group	5	12,000	1	60,000
	Wheelbarrow	Yes	piece for all	1	130,000	2	260,000
	Spade/shovel	Yes	piece for all	1	12,000	5	60,000
	Rake	Yes	piece per group	5	8,000	1	40,000
	Fly traps and bait for fly trap	Yes	piece per group	5	18,000	1	90,000
	Rodent traps	Yes	piece per group	5	20,000	1	100,000
	Footbaths	Yes	piece for all	1	75,000	2	150,000
	First aid kit	Yes	piece for all	1	100,000	1	100,000
	Feed mixing container (bucket or basin)	Yes	piece per group	5	20,000	1	100,000
	Measuring tools (scoops/cups)	Yes	piece per group	5	10,000	1	50,000

	Veterinary kit (demo set)	Yes	piece for all	1	800,000	1	800,000
	Buckets, scrapers, shovels	Yes	piece per group	5	50,000	1	250,000
	Postmortem demonstration kit (if applicable)	Yes	piece for all	1	200,000	1	200,000
	Sub-total						**9,835,000**
Grand total							**16,945,500**
Cost per beneficiary [CHF]							**326**