

CURRICULUM

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**Community Livestock Assistant
(CLA)**



Council for Technical Education and Vocational Training
Curriculum Development Division
Sanothimi, Bhaktapur
2008

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Introduction

This curriculum for community livestock assistant is designed to produce lower level technical workforce equipped with knowledge and skills related to livestock production and management occupation. It makes the trainees able to get opportunities for wage and self-employment in the related occupational field.

Aim

To produce lower level livestock workers (community livestock assistants) able to provide livestock services in the community being an entrepreneur/employee/self employed.

Objectives

After the completion of the training program, the trainees will be able:

- To be familiar with livestock production/management
- To be familiar with social mobilization
- To manage livestock (herd/flock)
- To assist for breeding management
- To manage nutrition
- To Keep goat/sheep
- To produce / manage pet animals
- To provide/facilitate for preventive services
- To provide first aid services to the animals
- To be familiar with zoonotic diseases
- To assist to manage drugs
- To manage dairy products
- To manage poultry products
- To manage wool/hide
- To market livestock products
- To communicate with others and
- To be familiar with entrepreneur development

Course Description

This curriculum provides skills & knowledge necessary for community livestock assistant. There will be both demonstration by instructors/trainers and opportunity by trainees to perform skills/tasks specified in this curriculum. Trainees will practice & learn skills using typical tools, materials, equipment & machines necessary for the program.

After successful completion of this program the trainees will be equipped with the knowledge and skills related to social mobilization, livestock management, livestock health services, livestock products management, livestock marketing, communication and entrepreneur development.

Course structure

| Community Livestock Assistant (CLA) | | | | | | | | |
|--|---|------------|-------------|------------|------------|------------|------------|------------|
| | Modules/Sub modules | Nature | Total hours | | | Full marks | | |
| | | | Th | Pr | Tot | Th | Pr | Tot |
| | 1. Introductory agriculture & social mobilization | T/P | 15 | 33 | 48 | 5 | 20 | 25 |
| | 1. Introduction to livestock | | 5 | 5 | 10 | | | |
| | 2. Social mobilization | | 10 | 28 | 38 | | | |
| | 2. Livestock management | T/P | 27 | 81 | 108 | 20 | 80 | 100 |
| | 1. Herd/flock management | | 9 | 27 | 36 | | | |
| | 2. Breeding management | | 5 | 15 | 20 | | | |
| | 3. Nutrition management | | 6 | 18 | 24 | | | |
| | 4. Goat / sheep keeping | | 5 | 15 | 20 | | | |
| | 5. Pet animals production and management-5 | | 2 | 6 | 8 | | | |
| | 3. Livestock health services | T/P | 25 | 59 | 84 | 20 | 80 | 100 |
| | 1. Preventive services | | 8 | 8 | 16 | | | |
| | 2. First aid treatment | | 7 | 21 | 28 | | | |
| | 3. Zoonotic diseases | | 5 | 15 | 20 | | | |
| | 4. Drugs management | | 5 | 15 | 20 | | | |
| | 4. Livestock products management | T/P | 24 | 72 | 96 | 10 | 40 | 50 |
| | 1. Dairy products management | | 11 | 33 | 44 | | | |
| | 2. Poultry products management | | 6 | 18 | 24 | | | |
| | 3. Wool / hide management | | 7 | 21 | 28 | | | |
| | 5. Marketing, communication and entrepreneur development | T/P | 21 | 33 | 54 | 5 | 20 | 25 |
| | 1. Livestock product marketing | | 6 | 6 | 12 | | | |
| | 2. Communication | | 8 | 8 | 16 | | | |
| | 3. Entrepreneur development | | 7 | 19 | 26 | | | |
| | Total: | | 112 | 278 | 390 | 60 | 240 | 300 |

Duration

The total duration of the course will be of 390 hours (three months).

Target group

All interested individuals in the field of livestock with educational prerequisite of class eight pass.

Group size

Maximum of thirty

Medium of instruction

Nepali or English or both

Pattern of attendance

- 80% attendance in theory
- 90% in practical/ performance

Focus of curriculum

This curriculum emphasizes on competency /performance. 80% time is allocated for performance and only 20% for related technical knowledge. So the focus will be on performance of the specified competencies in the curriculum

Entry criteria

- Minimum of eight class pass or equivalent
- Minimum of 14 years of age
- Should pass entrance examination

Follow up suggestions

In order to assess the success of this program and collect feedbacks/ inputs for the revision of the curriculum a schedule of follow up is suggested as follows:

- First follow up: - Six months after the completion of the program
- Second follow up: - Six months after the completion of the first follow up
- Follow up cycle: - In a cycle of one year after the completion of the second follow up for five years

Certificate

The related training institute will provide the certificate of "Community Livestock Assistant". Again, individuals who complete module (s) of the curriculum will receive a certificate of completion of the particular module(s).

Grading

- Distinction: Passed with 80% or above
- First Division: passed with 75% or above
- Second Division: passed with 65% or above

- Third Division: passed with 60% or above

Students evaluation

- Continuous evaluation of the trainees' performance is to be done by the related instructor/ trainer to ensure the proficiency over each competency under each of the sub-module.
- Related technical knowledge learnt by trainees will be evaluated through written or oral tests.
- Trainees must secure minimum marks of 60% in an average of both theory and practical evaluations.
- There will be three internal evaluations and one final evaluation in each module.
- The entrance test will be conducted by the concerned training institute

Trainers qualification

- I. Sc. Ag or equivalent in related field
- Good communicative and instructional skills
- Experience in related field

Trainer-trainees ratio

- 1:10 for practical classes
- For theory, as per the class room situation

Suggestions for instructor

Suggestions for instruction

1. Select objectives
 - Write objectives of cognitive domain
 - Write objectives of psychomotor domain
 - Write objectives of affective domain
2. Select subject matter
 - Study subject matter in detail
 - Select content related to cognitive domain
 - Select content related to psychomotor domain
 - Select content related to affective domain
3. Select instructional methods
 - Teacher centered methods: like lecture, demonstration, questions answer inquiry, induction and deduction methods.
 - Student initiated methods like experimental, field trip/excursion, discovery, exploration, problem solving, and survey methods.
 - Interaction methods like discussion, group/team teaching, microteaching and exhibition.
 - Dramatic methods like role play and dramatization
4. Select Instructional method (s) on the basis of objectives of lesson plans and KAS domains
5. Select appropriate educational materials and apply at right Time and place.
6. Evaluate the trainees applying various tools to correspond the KAS domains

7. Make plans for classroom / field work / workshop organization and management.
8. Coordinate among objectives, subject matter and instructional methods.
9. Prepare lesson plan for Theory and Practical classes.
10. Deliver /conduct instruction / program
11. Evaluate instruction/ program

Suggestion for the performance evaluation of the trainees

1. Perform task analysis
2. Develop a detail task performance checklist
3. Perform continuous evaluation of the trainees by applying the performance checklist.

Suggestion for skill training

Demonstrate performance

1. Demonstrate task performance in normal speed
2. Demonstrate slowly with verbal description of each and every step in the sequence of activity of the task performance using question and answer techniques.
3. Repeat 2 for the clarification on trainees demand if necessary
4. Perform fast demonstration of the task.

Provide trainees the opportunities to practice the task performance demonstration

1. Provide trainees to have guided practice
2. Create environment for practicing the demonstrated task performance
3. Guide the trainees in each and every step of task performance
4. Provide trainees to repeat and repeat as per the need to be proficient on the given task performance
5. Switch to another task demonstration if and only trainees developed proficiency in the task performance.

Other suggestions

1. Apply principles of skill training
2. Allocate 20% Time for Theory classes and 80% Time for task performance while delivering instructions
3. Apply principles of adult learning
4. Apply principles of intrinsic motivation
5. Facilitate maximum trainees involvement in learning and task performance activities
6. Instruct the trainees on the basis of their existing level of knowledge, skills and attitude.

Modules and sub modules

| Module: 1: Introductory livestock & social mobilization | | | | | |
|--|---|----------|---|----------|-----------|
| <p>Description: It deals with the knowledge and skills related to Introductory livestock & social mobilization.</p> <p>Objectives: After its completion the trainees will be able:</p> <ol style="list-style-type: none"> 1. To introduce livestock occupation 2. To be familiar with the concept of social mobilization <p>Sub-modules:</p> <ol style="list-style-type: none"> 1. Introduction to livestock 2. Social mobilization | | | | | |
| Sub module: 1: Introduction to livestock | | | | | |
| <p>Description: It deals with the knowledge and skills/tasks related to introductory livestock. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/professional manner, and time allocation for the task and its related knowledge.</p> <p>Objective: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> • To introduce livestock occupation <p>Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:</p> | | | | | |
| Th.(5 hrs) + Pr.(5 hrs) = Tot.(10 hrs) | | | | | |
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Develop concept of animal husbandry | 1 | <ul style="list-style-type: none"> • The importance and scope of livestock production to the farming system in Nepal. • Importance of livestock productivity as source of income and major capital investment of most village farmers | 1 | 2 |
| 2 | Develop concept of livestock management | 1 | <ul style="list-style-type: none"> • General requirements for livestock farming e.g. housing feed, water, health care etc | 1 | 2 |
| 3 | Perform First Aid in animals | 1 | <ul style="list-style-type: none"> • Bleeding control, wound dressing, dehydration control, fever control, treatment for poisoning, burns and scalds | 1 | 2 |
| 4 | Develop concept of | 1 | <ul style="list-style-type: none"> • The importance and | 1 | 2 |

| | | | | | |
|---|---------------------------------|---|---|---|----|
| | Poultry production/management | | scope of poultry production in Nepal <ul style="list-style-type: none"> Brief introduction to housing, feeding and water requirement to different types of poultry production | | |
| 5 | Develop concept of Fish farming | 1 | <ul style="list-style-type: none"> The importance and scope of fish production in Nepal Brief introduction to housing, feeding and water requirement to different types of fish farming | 1 | 2 |
| | Total: | 5 | | 5 | 10 |

Sub module: 2: Social mobilization

Description: It deals with the knowledge and skills/tasks related to social mobilization. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/professional manner, and time allocation for the task and its related knowledge.

Objective: After its completion the trainees will be able:

- To be familiar with the concept of social mobilization

Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:

| Th.(10 hrs) + Pr.(28 hrs) = Tot.(38 hrs) | | | | | |
|---|---|----------|---|----------|-----------|
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Observe the Sites | 3 | <ul style="list-style-type: none"> Background information (Location, General Socio economic condition) | 1 | 4 |
| 2 | Select Community Sites | 3 | <ul style="list-style-type: none"> Number of communities, target objectives | 1 | 4 |
| 3 | Build Rapport | 3 | <ul style="list-style-type: none"> Techniques , social environment | 1 | 4 |
| 4 | Prepare Village Profile | 3 | <ul style="list-style-type: none"> Tools, keeping records | 1 | 4 |
| 5 | Collect Information from Other Organizations about Their Activities | 3 | <ul style="list-style-type: none"> Targeted details about the organizations, keeping records | 1 | 4 |
| 6 | Enlist Current Status of Target Group | 3 | <ul style="list-style-type: none"> Target group identification, tools and methods, report writing | 1 | 4 |
| 7 | Collect Historical Cases | 3 | <ul style="list-style-type: none"> Tools and methods, report | 1 | 4 |

| | | | | | |
|--|------------------------------|----------|--|----------|-----------|
| | | | writing | | |
| 8 | Conduct Household Survey | 3 | <ul style="list-style-type: none"> ▪ Data collection, checklist/questionnaires preparation, sampling methods, keeping records | 1 | 4 |
| 9 | Conduct Individual Interview | 1 | <ul style="list-style-type: none"> ▪ Key informants, checklist/questionnaires preparation, sampling methods, keeping records | 1 | 2 |
| 10 | Conduct Group Interview | 3 | <ul style="list-style-type: none"> ▪ Checklist/questionnaires preparation, time management, keeping records | 1 | 4 |
| | Total: | 28 | | 10 | 38 |
| Module: 2: Livestock management | | | | | |
| <p>Description: It deals with the knowledge and skills related to herd/flock management, breeding management, nutrition management and goat / sheep keeping.</p> <p>Objectives: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> ▪ To assist for herd/flock management ▪ To assist for breeding management ▪ To manage nutrition ▪ To keep goat / sheep <p>Sub-modules:</p> <ol style="list-style-type: none"> 1. Herd/flock management 2. Breeding management 3. Nutrition management 4. Goat / sheep keepi | | | | | |
| Sub-module:1: Herd/flock management | | | | | |
| <p>Description: It deals with the knowledge and skills/tasks related to herd/flock management. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/ professional manner, and time allocation for the task and its related knowledge.</p> <p>Objective: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> • To assist for herd/flock management <p>Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:</p> | | | | | |
| Th.(9 hrs) + Pr.(27 hrs) = Tot.(36 hrs) | | | | | |
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Manage housing | 3 | <ul style="list-style-type: none"> • Criteria of site selection • Construction of animal shed | 1 | 4 |

| | | | | | |
|---|---|---|--|---|---|
| | | | <ul style="list-style-type: none"> • Construction of individual pen • Use of locally available materials for the construction | | |
| 2 | Care/Manage pregnant/ milch animal | 3 | <ul style="list-style-type: none"> • Special requirements for pregnant female animals (feed, water, housing) • Precautions to be taken during parturition, handling of dystocia • Caring of mothers after parturition • Care for udder to prevent mastitis | 1 | 4 |
| 3 | Keep record of production / animal health | 3 | <ul style="list-style-type: none"> • Importance of record keeping for management decisions (breeding records, production and weight gain records, feeding records, financial records and health records) | 1 | 4 |
| 4 | Care/Manage of newly born calves | 3 | <ul style="list-style-type: none"> • Care of the new born (warm, dry, ensure that it is feeding, colostrums and its importance, dipping of navel to prevent infections) | 1 | 4 |
| 5 | Identify animal Animals | 3 | <ul style="list-style-type: none"> • Importance and various methods of identification • Different types of tags available and | 1 | 4 |
| 6 | Shear wools | 3 | <ul style="list-style-type: none"> • Introduction to wool fiber proper • Different shearing techniques | 1 | 4 |
| 7 | Care/Manage chicks | 3 | <ul style="list-style-type: none"> • Artificial brooding equipment for chicks light, temperature, space, feeder & guard bar, etc • Brooding with mother hen \ natural • Cleaning and replacing litter | 1 | 4 |

| 8 | Care/Manage broiler | 3 | <ul style="list-style-type: none"> • Feed, water, space requirement • Cleaning and replacing litter • Vaccination | 1 | 4 |
|---|------------------------------------|----------|---|----------|-----------|
| 9 | Care/Manage grower/layer | 3 | <ul style="list-style-type: none"> • Feed, water, space requirement • Cleaning and replacing litter • Vaccination | 1 | 4 |
| Total: | | 27 | | 9 | 36 |
| Sub-module:2: Breeding management | | | | | |
| <p>Description: It deals with the knowledge and skills/tasks related to breeding management. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/professional manner, and time allocation for the task and its related knowledge.</p> <p>Objective: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> • To assist for breeding management <p>Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:</p> | | | | | |
| Th.(5 hrs) + Pr.(15 hrs) = Tot.(20 hrs) | | | | | |
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Manage improve breeding sire | 3 | <ul style="list-style-type: none"> • Breed wise selection criteria • Feed, water, space requirement • Regular health checkup care for external and internal parasite • Maintenance of service | 1 | 4 |
| 2 | Manage improve breeding female/dam | 3 | <ul style="list-style-type: none"> • Breed wise selection criteria • Feed, water, space requirement • Regular health checkup care for external and internal parasite • Plan for breeding | 1 | 4 |
| 3 | Assist to provide AI | 3 | <ul style="list-style-type: none"> • Introduction to AI merits and demerits • AI methodology | 1 | 4 |
| 4 | Provide advice about | 3 | <ul style="list-style-type: none"> • Causes of infertility | 1 | 4 |

| | infertility | | <ul style="list-style-type: none"> Possible correction measures | | |
|--|---|----------|---|----------|-----------|
| 5 | Keep breeding record | 3 | <ul style="list-style-type: none"> Contents and preparation breeding record | 1 | 4 |
| | Total: | 15 | | 5 | 20 |
| Sub-module:3: Nutrition management | | | | | |
| <p>Description: It deals with the knowledge and skills/tasks related to nutrition management. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent / professional manner, and time allocation for the task and its related knowledge.</p> <p>Objective: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> To manage nutrition <p>Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:</p> | | | | | |
| Th.(6 hrs) + Pr.(18 hrs) = Tot.(24 hrs) | | | | | |
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Identify local grasses | 2 | <ul style="list-style-type: none"> Introduction to different local grasses found in Nepal e.g vetch, paspalum, amliso, molasses, stylo, kudju, desmodium etc | 0.5 | 2.5 |
| 2 | Grow improved grasses | 3 | <ul style="list-style-type: none"> Requirements for growing of Napier, Setaria, Rye, Berseem, Oat | 1.0 | 4.0 |
| 3 | Prepare silage/ hay | 2 | <ul style="list-style-type: none"> Crops suitable for hay/silage making according to season Process of hay and silage making, characteristics of good hay and silage Storage of hay, straw stalks and silage and their utilization | 0.5 | 2.5 |
| 4 | Improve nutritive value of dry roughage | 1 | <ul style="list-style-type: none"> Roughage treatment - by physical and chemical means Urea treatment | 0.5 | 1.5 |
| 5 | Calculate dry matter requirement | 1 | <ul style="list-style-type: none"> Definition of dry matter (DM) and its components, role and | 0.5 | 1.5 |

| | | | | | |
|---|--|----------|--|----------|-----------|
| | | | <p>requirement of dry matter in animal nutrition</p> <ul style="list-style-type: none"> Total amount of feed consumption by an animal in dry matter and fresh matter basis in roughages and concentrates in daily, weekly and monthly basis | | |
| 6 | Grow fodder tree | 2 | <ul style="list-style-type: none"> Locally available multipurpose fodder trees and their importance Procedure of growing | 1.0 | 3.0 |
| 7 | Manage fodder nursery | 3 | <ul style="list-style-type: none"> Care and management of fodder nursery | 1.0 | 4.0 |
| 8 | Orient feeding practice | 2 | <ul style="list-style-type: none"> Day to day feeding of animals with different types of feed | 0.5 | 2.5 |
| 9 | Formulate locally available concentrate ration | 2 | <ul style="list-style-type: none"> Simple concept of ration formulation: protein requirement, energy requirement, DM requirement, minerals and vitamins and their sources | 0.5 | 2.5 |
| | Total: | 18 | | 6 | 24 |
| Sub-module:4: Goat / sheep keeping | | | | | |
| <p>Description: It deals with the knowledge and skills/tasks related to goat and sheep keeping. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/professional manner, and time allocation for the task and its related knowledge.</p> <p>Objective: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> To Keep goat / sheep <p>Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:</p> | | | | | |
| Th.(5 hrs) + Pr.(15 hrs) = Tot.(20 hrs) | | | | | |
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Plan for Goat / Sheep keeping | 3 | <ul style="list-style-type: none"> Importance of sheep and goat production in different parts of Nepal (geographical, economical, socio-cultural) | 1 | 4 |

| | | | | | |
|--------|----------------------|----|---|---|----|
| 2 | Manage housing | 3 | <ul style="list-style-type: none"> Types of housing and equipment facilities provided for different types of animals according to number, size, sexes and management level: lamb/kids, lactating and dry, breeding male and pregnant, sick, etc. | 1 | 4 |
| 3 | Identify breeds | 3 | <ul style="list-style-type: none"> Different types of breeds Exotic and Indigenous and their characteristics | 1 | 4 |
| 4 | Protect Goat / Sheep | 3 | <ul style="list-style-type: none"> Vaccination and deforming in sheep and goat | 1 | 4 |
| 5 | Feed Goat / Sheep | 3 | <ul style="list-style-type: none"> Day to day feeding of concentrate and green and dry fodder feeding practices Stall feeding and pasture feeding | 1 | 4 |
| Total: | | 15 | | 5 | 20 |

Sub-module: 5: Pet animal production and management

Description: It deals with the knowledge and skills/tasks related to pet animal production and management. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/ professional manner, and time allocation for the task and its related knowledge.

Objective: After its completion the trainees will be able:

- To keep pet (dogs, cats)

Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:

| Th.(2 hrs) + Pr.(6 hrs) = Tot.(8 hrs) | | | | | |
|--|---------------------------|----------|---|----------|-----------|
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Plan for pet keeping | 1.2 | <ul style="list-style-type: none"> Reasons and advantages of pet animals, types of pet | 0.4 | 1.6 |
| 2 | Identify breeds | 1.2 | <ul style="list-style-type: none"> Common breeds of dog and cat in Nepal | 0.4 | 1.6 |
| 3 | Care and manage dog | 1.2 | <ul style="list-style-type: none"> Use of leads, choke | 0.4 | 1.6 |

| | | | | | |
|--|---------------------------|----------|--|----------|-----------|
| | | | collars, brushing and bathing a dog | | |
| | | | <ul style="list-style-type: none"> Administration of medicine; nail and tooth care, clipping of hair in some breeds Sanitation of dog kennel | | |
| 4 | Protect dog/cat | 1.2 | <ul style="list-style-type: none"> Vaccination and de-worming, deticking of dog and cat | 0.4 | 1.6 |
| 5 | Feed dog/cat | 1.2 | <ul style="list-style-type: none"> Day to day feeding practices Food requirements and common dog foods found in the market | 0.4 | 1.6 |
| | Total: | 6 | | 2 | 8 |
| Module: 3: Livestock health services | | | | | |
| <p>Description: It deals with the knowledge and skills related to preventive services, first aid treatment, zoonotic diseases, and drugs management.</p> <p>Objectives: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> To provide / facilitate preventive services To provide first aid treatment To be familiar with zoonotic diseases To assist to manage drugs <p>Sub-modules:</p> <ol style="list-style-type: none"> Preventive services First aid treatment Zoonotic diseases Drugs management | | | | | |
| Sub module: 1: Preventive services | | | | | |
| <p>Description: It deals with the knowledge and skills/tasks related to preventive livestock health services. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/ professional manner, and time allocation for the task and its related knowledge.</p> <p>Objective: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> To provide / facilitate preventive livestock health services <p>Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:</p> | | | | | |
| Th.(8 hrs) + Pr.(8 hrs) = Tot.(16 hrs) | | | | | |
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |

| | | | | | |
|---|--|---|---|---|----|
| 1 | Organize awareness program for farmers | 1 | <ul style="list-style-type: none"> • Set up farmers group • Focus on de-worming vaccination and general care and management of livestock for preventive measures | 1 | 2 |
| 2 | Facilitate for animal health campaign | 1 | <ul style="list-style-type: none"> • Dissemination of message • Coordination among the stakeholders • Preparation for the camp, drugs, vaccines, surgical instruments etc. | 1 | 2 |
| 3 | Quarantine animals | 1 | <ul style="list-style-type: none"> • Definition of quarantine • Quarantine procedure | 1 | 2 |
| 4 | Isolate sick animal | 1 | <ul style="list-style-type: none"> • Justification of isolation • Isolation procedure | 1 | 2 |
| 5 | Vaccinate animals / poultry | 1 | <ul style="list-style-type: none"> • Introduction to vaccine • Common vaccines and their inoculation procedure in animals and poultry | 1 | 2 |
| 6 | Disinfect shed / poultry farm | 1 | <ul style="list-style-type: none"> • Definition of disinfection • Different types of disinfectants used in livestock and poultry farms • Actual process of cleaning and disinfection | 1 | 2 |
| 7 | Carry out routine drenching | 1 | <ul style="list-style-type: none"> • Procedure of drenching • Common drenching done at livestock farm | 1 | 2 |
| 8 | Dispose carcass | 1 | <ul style="list-style-type: none"> • Different methods of carcass disposal | 1 | 2 |
| | Total: | 8 | | 8 | 16 |
| Sub module: 2: First aid treatment | | | | | |
| <p>Description: It deals with the knowledge and skills/tasks related to first aid treatment in livestock/animals. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/ professional manner, and time allocation for the task and its related knowledge.</p> <p>Objective: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> • To provide first aid treatment | | | | | |

| Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge: | | | | | |
|--|-------------------------------------|----------|--|----------|-----------|
| Th.(7 hrs) + Pr.(21 hrs) = Tot.(28 hrs) | | | | | |
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Control bleeding | 3 | <ul style="list-style-type: none"> • Different methods of controlling bleeding • Ligation, use of haemostat | 1 | 4 |
| 2 | Dress wound | 3 | <ul style="list-style-type: none"> • Procedure of wound dressing aseptically • Common antiseptics and ointments used in wound dressing | 1 | 4 |
| 3 | Perform local splinting in fracture | 3 | <ul style="list-style-type: none"> • Indication of splinting • Local splints and their application procedure | 1 | 4 |
| 4 | Provide oral rehydration | 3 | <ul style="list-style-type: none"> • Assessment of dehydration • Preparation of rehydration solutions and their uses | 1 | 4 |
| 5 | Treat for burning / scald | 3 | <ul style="list-style-type: none"> • Management and treatment of burns and scalds cases • | 1 | 4 |
| 6 | Treat for poisoning | 3 | <ul style="list-style-type: none"> • Use of emetics • Use of purgatives and chelating agents • General symptomatic treatment | 1 | 4 |
| 7 | Control high fever | 3 | <ul style="list-style-type: none"> • Management of fever cases use of ice pack • Common antipyretic drugs | 1 | 4 |
| Total: | | 21 | | 7 | 28 |
| Sub module: 3: Zoonotic diseases | | | | | |
| <p>Description: It deals with the knowledge and skills/tasks related to zoonotic diseases. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/professional manner, and time allocation for the task and its related knowledge.</p> <p>Objective: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> • To be familiar with zoonotic diseases | | | | | |

| Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge: | | | | | |
|--|--|----------|--|----------|-----------|
| Th.(5 hrs) + Pr.(15 hrs) = Tot.(20 hrs) | | | | | |
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Familiarize with Meat borne diseases | 3 | <ul style="list-style-type: none"> Enlist meat borne diseases and their adverse effects in humans | 1 | 4 |
| 2 | Familiarize with Milk Born diseases | 3 | <ul style="list-style-type: none"> Enlist milk borne diseases and their adverse effects in humans | 1 | 4 |
| 3 | Familiarize with Common Bacterial zoonoses | 3 | <ul style="list-style-type: none"> Enlist bacterial zoonotic diseases and their adverse effects in humans | 1 | 4 |
| 4 | Familiarize with Common Viral zoonoses | 3 | <ul style="list-style-type: none"> Enlist viral zoonotic diseases and their adverse effects in humans | 1 | 4 |
| 5 | Familiarize with Common Parasitic zoonoses | 3 | <ul style="list-style-type: none"> Enlist common parasitic zoonotic diseases and their adverse effects in humans | 1 | 4 |
| Total: | | 15 | | 5 | 20 |
| Sub module: 4: Drugs management | | | | | |
| <p>Description: It deals with the knowledge and skills/tasks related to drugs management. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/professional manner, and time allocation for the task and its related knowledge.</p> <p>Objective: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> To assist to manage drugs <p>Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:</p> | | | | | |
| Th.(5 hrs) + Pr.(15 hrs) = Tot.(20 hrs) | | | | | |
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Clean shops | 3 | <ul style="list-style-type: none"> Removal of unwanted materials/ substances and their management Disinfection | 1 | 4 |
| 2 | Store Medicine | 3 | <ul style="list-style-type: none"> Storing in the refrigerator Storing and labeling at medicine rack | 1 | 4 |

| | | | | | |
|---|--------------------|----|---|---|----|
| 3 | Prepare Bill | 3 | <ul style="list-style-type: none"> • Format of a bill • Filling up of the bill after drug sale | 1 | 4 |
| 4 | Maintain Inventory | 3 | <ul style="list-style-type: none"> • Preparing a day book • Preparing a cash register • Maintaining a ledger | 1 | 4 |
| | Total: | 15 | | 5 | 20 |

Module: 4: Livestock Products management

Description: It deals with the knowledge and skills related to manage dairy and poultry products, and wool and hide.

Objectives: After its completion the trainees will be able:

- To manage dairy products
- To manage poultry products
- To manage wool and hide

Sub-modules:

1. Dairy products management
2. Poultry products management
3. Wool/hide management

Sub module: 1: Dairy products management

Description: It deals with the knowledge and skills/tasks related to dairy products management. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/professional manner, and time allocation for the task and its related knowledge.

Objective: After its completion the trainees will be able:

- To manage dairy products

Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:

| Th.(11 hrs) + Pr.(33 hrs) = Tot.(44 hrs) | | | | | |
|---|---------------------------|----------|--|----------|-----------|
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Produce clean milk | 3 | <ul style="list-style-type: none"> • Points to be considered in clean milk production | 1 | 4 |
| 2 | Perform plate form test | 3 | <ul style="list-style-type: none"> • Different organoleptic test • Clot on boiling • Alcohol test | 1 | 4 |
| 3 | Pasteurize milk | 3 | <ul style="list-style-type: none"> • Principles involved in pasteurization, • Methods of pasteurization: local and using special equipment | 1 | 4 |
| 4 | Make dahi/ yoghurt | 3 | <ul style="list-style-type: none"> • Use of different starter | 1 | 4 |

| | | | | | |
|----|--------------------|----|---|----|----|
| | | | culture | | |
| | | | <ul style="list-style-type: none"> Preparation principles and storage of dahi/ yoghurt | | |
| 5 | Make sweets | 3 | <ul style="list-style-type: none"> Procedure and principle of making Raswari, Lalmohan | 1 | 4 |
| 6 | Make paneer | 3 | <ul style="list-style-type: none"> Procedure and principle of making Paneer | 1 | 4 |
| 7 | Make khuwa | 3 | <ul style="list-style-type: none"> Procedure and principle of making Khuwa | 1 | 4 |
| 8 | Make chenna | 3 | <ul style="list-style-type: none"> Procedure and principle of making Chenna | 1 | 4 |
| 9 | Make butter / ghee | 3 | <ul style="list-style-type: none"> Procedure and principle of making butter/ghee | 1 | 4 |
| 10 | Make churpi | 3 | <ul style="list-style-type: none"> Procedure and principle of making churpi | 1 | 4 |
| 11 | Make ice-cream | 3 | <ul style="list-style-type: none"> Procedure and principle of making ice-cream | 1 | 4 |
| | Total: | 33 | | 11 | 44 |

Sub module: 2: Poultry products management

Description: It deals with the knowledge and skills/tasks related to poultry products management. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/ professional manner, and time allocation for the task and its related knowledge.

Objective: After its completion the trainees will be able:

- To manage poultry products

Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:

| Th.(6 hrs) + Pr.(18 hrs) = Tot.(24 hrs) | | | | | |
|--|---------------------------|----------|--|----------|-----------|
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Collect eggs | 3 | <ul style="list-style-type: none"> Procedure of egg collection egg washing Precautionary measures to produce unsoiled eggs | 1 | 4 |
| 2 | Grade eggs | 3 | <ul style="list-style-type: none"> Criteria of egg grading (shape, size, colour cleanliness etc) | 1 | 4 |
| 3 | Store eggs | 3 | <ul style="list-style-type: none"> Storing in the tray, Types of trays holding of tray | 1 | 4 |

| | | | | | |
|---|---------------------------|----|--|---|----|
| | | | <ul style="list-style-type: none"> Storing at room temperature and refrigerator | | |
| 4 | Manage egg transportation | 3 | <ul style="list-style-type: none"> Transportation by different means Management of tray at vehicle | 1 | 4 |
| 5 | Market eggs | 3 | <ul style="list-style-type: none"> Survey of egg supply at local situation (demand and supply) | 1 | 4 |
| 6 | Market Live bird | 3 | <ul style="list-style-type: none"> Survey of live bird supply at local situation (demand and supply) | 1 | 4 |
| | Total: | 18 | | 6 | 24 |

Sub module: 3: Wool / hide management

Description: It deals with the knowledge and skills/tasks related to wool and hide management. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/professional manner, and time allocation for the task and its related knowledge.

Objective: After its completion the trainees will be able:

- To manage wool and hide

Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:

| Th.(7 hrs) + Pr.(21 hrs) = Tot.(28 hrs) | | | | | |
|--|------------------------------------|----------|---|----------|-----------|
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Collect Wool | 3 | <ul style="list-style-type: none"> Shearing of wool from live animal and its collection | 1 | 4 |
| 2 | Grade Wool | 3 | <ul style="list-style-type: none"> Criteria of wool grading (fleece length, fleece colour, diameter etc) | 1 | 4 |
| 3 | Store Wool | 3 | <ul style="list-style-type: none"> Procedure and precaution of wool storage (temperature humidity, storing place etc) | 1 | 4 |
| 4 | Market wool | 3 | <ul style="list-style-type: none"> Survey of wool supply (demand and supply) | 1 | 4 |
| 5 | Collect hide | 3 | <ul style="list-style-type: none"> Procedure of hide collection | 1 | 4 |
| 6 | Perform initial processing of hide | 3 | <ul style="list-style-type: none"> Steps of hide processing | 1 | 4 |
| 7 | Market hide | 3 | <ul style="list-style-type: none"> Survey of hide supply | 1 | 4 |

| | | | (demand and supply) | | |
|---|---------------------------|----------|---|----------|-----------|
| | Total: | 21 | | 7 | 28 |
| Module: 5: Marketing, communication and entrepreneur | | | | | |
| <p>Description: It deals with the knowledge and skills related to market livestock products, communicate with others, and develop entrepreneurship skills.</p> <p>Objectives: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> • To market livestock products • To communicate with others • To develop entrepreneurship skills <p>Sub-modules:</p> <ol style="list-style-type: none"> 1. Livestock product marketing 2. Communication 3. Entrepreneur development | | | | | |
| Sub module: 1: Livestock product marketing | | | | | |
| <p>Description: It deals with the knowledge and skills/tasks related to livestock product marketing. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/ professional manner, and time allocation for the task and its related knowledge.</p> <p>Objective: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> • To market livestock products <p>Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:</p> | | | | | |
| Th.(6 hrs) + Pr.(6 hrs) = Tot.(12 hrs) | | | | | |
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Store livestock products | 1 | <ul style="list-style-type: none"> • Introduction to different storing techniques (Thermal storage, curing, canning etc) | 1 | 2 |
| 2 | Season livestock products | 1 | <ul style="list-style-type: none"> • Curing • Freezing • Smoking • Drying etc | 1 | 2 |
| 3 | Identify market | 1 | <ul style="list-style-type: none"> • Survey of livestock products' market | 1 | 2 |
| 4 | Manage transportation | 1 | <ul style="list-style-type: none"> • Different types of transportation system used for livestock products | 1 | 2 |
| 5 | Promote sales | 1 | <ul style="list-style-type: none"> • Advertisement • Emphasis of the scientific | 1 | 2 |

| | | | | | |
|--|--|----------|--|----------|-----------|
| | | | technique | | |
| 6 | Prepare packages | 1 | <ul style="list-style-type: none"> Principles of packaging Different packaging techniques for different livestock products | 1 | 2 |
| | Total: | 6 | | 6 | 12 |
| Sub module: 2: Communication | | | | | |
| <p>Description: It deals with the knowledge and skills/tasks related to communication. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/professional manner, and time allocation for the task and its related knowledge.</p> <p>Objective: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> To communicate with others <p>Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:</p> | | | | | |
| Th.(8 hrs) + Pr.(8 hrs) = Tot.(16 hrs) | | | | | |
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Write Job Application | 1 | <ul style="list-style-type: none"> Contents and format of application | 1 | 2 |
| 2 | Prepare Resume | 1 | <ul style="list-style-type: none"> Contents and format of resume | 1 | 2 |
| 3 | Communicate with senior | 1 | <ul style="list-style-type: none"> Disciplinary approach Develop skills to communicate with senior | 1 | 2 |
| 4 | Communicate with junior | 1 | <ul style="list-style-type: none"> Disciplinary approach Skills to communicate with junior | 1 | 2 |
| 5 | Deal with Customers | 1 | <ul style="list-style-type: none"> Important points taken into consideration while dealing with customers | 1 | 2 |
| 6 | Communicate with Other Farm owners | 1 | <ul style="list-style-type: none"> Important points taken into consideration while dealing with farmers | 1 | 2 |
| 7 | Request / Purchase Tool, Supplies, Materials and Equipment | 1 | <ul style="list-style-type: none"> Enlisting the materials of purchase Making inquiry with the concerning agent | 1 | 2 |
| 8 | Fill up Leave Requisition form | 1 | <ul style="list-style-type: none"> Format and content of leave requisition form | 1 | 2 |
| | Total: | 8 | | 8 | 16 |

| Sub module: 3: Entrepreneur development | | | | | |
|---|--------------------------------------|--|--|----------|-----------|
| <p>Description: It deals with the knowledge and skills/tasks related to entrepreneurship skills development. Each task consists of terminal performance objective, minimum related technical knowledge necessary to carry out that very task in a competent/ professional manner, and time allocation for the task and its related knowledge.</p> <p>Objective: After its completion the trainees will be able:</p> <ul style="list-style-type: none"> • To develop entrepreneurship skills <p>Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks together with their related technical knowledge:</p> | | | | | |
| Th.(7 hrs) + Pr.(19 hrs) = Tot.(26 hrs) | | | | | |
| SN | Tasks/skills/competencies | Pr (hrs) | Related technical knowledge | Th (hrs) | Tot (hrs) |
| 1 | Develop Entrepreneurial Competencies | 3 | <ul style="list-style-type: none"> • Market information, govt. policies, market channel | 1 | 4 |
| 2 | Select / Identify a Project | 3 | <ul style="list-style-type: none"> • Scope, market demand, project formulation, project feasibility | 1 | 4 |
| 3 | Manage an Enterprise | 3 | <ul style="list-style-type: none"> • Office establishment, staff selection, human resource management, market channel | 1 | 4 |
| 4 | Develop Marketing Skill. | 3 | <ul style="list-style-type: none"> • Market strategies, market information, company policies, market channel | 1 | 4 |
| 5 | Conduct Promotional Activities | 3 | <ul style="list-style-type: none"> • Types (training, advertisement, fair) | 1 | 4 |
| 6 | Prepare a Business Plan / Scheme | 3 | <ul style="list-style-type: none"> • Inventory, budget allocation | 1 | 4 |
| 7 | Develop communication Skills | 1 | <ul style="list-style-type: none"> • Type of communication : mass, individual, group and media | 1 | 2 |
| Total: | | 19 | | 7 | 26 |
| List of tools, materials and equipment | | | | | |
| <ul style="list-style-type: none"> • Different vaccines for bovines- Cattle, Buffalo (HS, FMD, IBD, PPR) • Casting rope, • Trevis • Drenching bottle • Balling gun • AI gun | | <p><u>For dog keeping:</u></p> <ul style="list-style-type: none"> • Different vaccines for Dogs • ARV, Corona, DHPpiL • Charts of different breeds of dogs. • Grooming kit (Nail clipper, brush, dusting powder, shampoo, etc) • Collars, tags. <p><u>For animal health camp:</u></p> | | | |

| | | | |
|--------------------------|---|--|--|
| | <ul style="list-style-type: none"> • Trocar and canula • AI sheath • AI catheter. • Different types of fodders and their seeds (Napier, Berseem, Stylo, Vetch, Amriso, Paspalam, Taki, etc). • Chopping machine. • Urea, equipments for preparation of mineral blocks. • Molasses, feed(concentrate and roughages) • Oven/ dessicstor. • Weighing machine • Anthelmintics (Albendazole, Febendazole (Panacur), Levamisole, Ivermectin, etc). <p><u>For dairy:</u></p> <ul style="list-style-type: none"> • Yoghurt Culture • Pots of various sizes, Milk, Sugar, Flavours, Emulsifiers, Stabilizers. | <ul style="list-style-type: none"> • Anthelmintics, Vaccines, Ice box, Ice packs, Antifungal ointments, Syringes- 3ml, 5ml, 10ml, 20ml, Surgical instrument set, Burdizzo's castrator- large, medium. <p><u>For First Aid treatment:</u></p> <ul style="list-style-type: none"> • Catgut, Suturing needles, KMnO4, Vitamin K injection, Betadine, Cotton swabs. • Hydrogen peroxide, Cotton rolls, Dettol, Savlon, Sulphur Ointment, fly repellent ointments, IV set, canula • Splints, Local/ genera; anaesthetic agents, Cotton swabs, Analgesics, Antibiotics. • Normal Saline Solution, Dextrose solution, RL solution, Hemacoe. <p><u>Poultry product management:</u></p> <ul style="list-style-type: none"> • Candling machine, Egg crates, • Egg boxes, Trays etc. | |
| Reading materials | | | |
| | <ul style="list-style-type: none"> • Text book of animal husbandry <u>By:</u> G. C. Banerjee • Dairy technology <u>By:</u> Sukumar Dey • Kukhura Palan Gyan <u>By:</u> Dr. Bansi sharma /Dinesh Parajuli • Sheep and Goat production <u>By:</u> Dr. B. R. Joshi • Gaai Palan <u>By:</u> Dr. Bhuwaneshwar sharma | <ul style="list-style-type: none"> • Krishi Prachar <u>By:</u> Department of livestock Services • Techniques in veterinary surgery <u>By:</u> Anresh Kumar • Dogs <u>By:</u> Amalendu Chakrawarti • Ethnic Veterinary Practices in South Asian Countries. (Heifer publications) • CTEVT publications | |
| Facilities | | | |
| | <ul style="list-style-type: none"> • Well equipped enough class/ office rooms • Demonstration farms for various livestock species • Transportation facilities • Laboratory / library • OHP/computers/ Pictures | <ul style="list-style-type: none"> • Multimedia presentation set • Various animal feeds and fodders • Source of concentrate feeds(feed mill) • Hostel/canteen /drinking water • Electricity | |