# PRODUCE CONVECTIONAL AND NON-CONVECTIONAL LIVESTOCK

**UNIT CODE:** AGR/CU/EXT/CR/01/6/A

**Relationship to Occupational Standards**
This unit addresses the Unit of Competency: Produce convectional and non-convectional livestock.

**Duration of Unit:** 180 hours

**Unit Description**
This unit specifies competencies required to produce convectional and non-convectional livestock. It involves selecting breeding stock, designing animal structures, constructing animal structures, installing and maintaining livestock tools, equipment and machines, breeding convectional and non-convectional live stocks, practicing livestock husbandry and managing young and growing stocks.

**Summary of Learning Outcomes**

1. Select breeding stock
2. Design and construct farm structures
3. Install and maintain livestock tools, equipment and machines
4. Breed farm animals
5. Practice livestock husbandry
6. Manage young and growing stocks

**Learning Outcomes, Content and Suggested Assessment Methods**

| Learning Outcome | Content | Suggested Assessment Methods |
|---|---|---|
| 1. Select breeding stock | • Livestock breeds<br>• Animal reproduction<br>• Breeding methods<br>• Basic genetics<br>• Traits of economic importance<br>• Selection methods<br>• Tools and equipment of breeding | • Written tests<br>• Observation<br>• Oral questions<br>• Third party report |
| 2. Design and construct farm structures | • Types of animal structures<br>• Livestock housing plans<br>• Animal structure designs | • Written tests<br>• Observation<br>• Oral questions |

| | | Construction of animal structures | Third party report |
|---|---|---|---|
| | | Materials, Tools and equipment of construction | |
| 3. Install and maintain livestock tools, equipment and machines | | • Livestock tools, equipment, machines and their uses<br>• Maintenance of livestock tools, machines and equipment | • Written tests<br>• Observation<br>• Oral questions<br>• Third party report |
| 4. Breed farm animals | | • Mating systems<br>• Feeding for breeding<br>• Artificial insemination<br>• Embryo transfer technology<br>• Grading up program | • Observation<br>• Written tests<br>• Oral questions<br>• Third party report |
| 5. Practice livestock husbandry | | • Livestock routine management practices<br>• Bio-security measures<br>• Personal protective equipment | • Observation<br>• Written tests<br>• Oral questions<br>• Third party report |
| 6. Manage young and growing stocks | | • Preparation for parturition or birth<br>• Post-parturition management<br>• Feeding young and growing stock<br>• Weaning of young stock<br>• Health management | • Observation<br>• Written tests<br>• Oral questions<br>• Third party report |

**Suggested Methods of instruction**
- Project
- Demonstration by trainer
- Practice by the trainee
- Discussions
- Direct instruction
- Simulation
- On job training

**Recommended Resources**
- Convectional and non-convectional livestock breeds
- Animal breeder's manual
- Artificial insemination equipment
- Liquid nitrogen can

- Hoof trimming knifes
- Burdizzo
- Wool shear
- Panga
- Ear tagging machines
- Hammer
- Tattooing machines
- Trocar and canula
- Teeth clipping knife
- Pig restraining equipment
- Feeding troughs
- Disbudding iron
- Dehorning wire
- Waterers
- Clinical thermometers
- Milking pails
- Sieve
- PPEs
- Ropes
- Farrowing crates
- Drenching guns
- De-wormers
- Bolus gun
- Ear tags
- Chaff cutter
- Electric power
- Calf pens
- Zero-grazing unit
- Cattle crush
- Pig stay
- Bee hives
- Rabbit hitches
- Deep litter houses
- Battery cage
- Egg incubators
- Livestock feed barns
- Chick brooders

- Hack saw
- Spray race
- Knapsack sprayer
- Weigh bridge
- Weighing tape
- Weighing balance
- Stethoscope
- Branding iron
- Milking machines
- Store
- Text books
- Note books
- Flip charts
- Projector
- Computers
- Manuals
- White boards
- White board markers
- Masking tapes
- Felt pens