

## BREEDING OF DAIRY ANIMALS

**UNIT CODE:** 0811 341 06A

**TVETCDACC UNIT CODE:** DA/CU/FM/CR/02/4/MA

### **Relationship to Occupational Standards**

This unit addresses the Unit of Competency: Breed Dairy Animals

**Duration of Unit:** 40 hours

### **Unit Description**

This unit specifies the competencies required to breed dairy animals. It involves preparing to breed dairy animals, breeding dairy animals, evaluating dairy animal breeding, completing dairy animal breeding.

### **Summary of Learning Outcomes**

By the end of this unit, the learner should be able to:

S/No	Learning Outcomes	Duration (Hours)
1.	Prepare to breed dairy animals	10
2.	Breed dairy animals	15
3.	Evaluate dairy animal breeding	10
4	Complete dairy animal breeding	5
<b>Total</b>		<b>40</b>

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

Learning Outcome	Content	Suggested Assessment Methods
1. Prepare to breed dairy animals	1.3.Breeding management tools, equipment, materials and supplies 1.3.1. Identification 1.3.2. Castration	<ul style="list-style-type: none"><li>• Written tests</li><li>• Observation</li><li>• Oral questions</li><li>• Third party report</li></ul>

	1.3.3. Handling parturition 1.3.4. Weighing 1.3.5. Artificial insemination 1.4. Personal Protective Equipment 1.4.1. Gloves 1.4.2. Gumboots 1.4.3. overall 1.5. Animals identification 1.6. Ear tagging 1.7. Tattooing 1.8. Ear Notching 1.9. Electronic transponders 1.10. Branding 1.7. Occupational safety and health standards	<ul style="list-style-type: none"> <li>• Interviewing</li> </ul>
2. Breed dairy animals	2.1. Oestrus cycle in dairy animals 2.2. Breeding systems 2.2.1. Pure breeding 2.2.2. Cross breeding 2.2.3. Line breeding	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Written tests</li> <li>• Oral questions</li> <li>• Interviewing</li> <li>• Third party report</li> </ul>
3. Evaluate dairy animal breeding	3.1. Repeat breeders 3.2. Genetic disorders	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Written tests</li> <li>• Oral questions</li> <li>• Interviewing</li> <li>• Third party report</li> </ul>
4. Complete dairy animal breeding	4.1. Culling criterion dairy animals 4.2. Surplus Materials and supplies management 4.3. Waste management	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Written tests</li> <li>• Oral questions</li> <li>• Interviewing</li> </ul>

### Suggested Methods of Instruction

- Demonstration by trainer
- Project
- Field trips
- Discussions
- Direct instruction

## Recommended Resources

### Functional dairy farm with the following:

<ul style="list-style-type: none"><li>• AI services</li><li>• PPEs</li><li>• Weighing bands</li><li>• Identification equipment and materials</li><li>• Navel clips</li><li>• Holding crush</li></ul>	<ul style="list-style-type: none"><li>• Breeding males</li><li>• Feed rations</li><li>• Breeding records</li><li>• Stationery</li><li>• PPEs</li><li>• Maternity pens</li><li>• Water</li></ul>	<ul style="list-style-type: none"><li>• Weighing band</li><li>• Breeding calendar</li><li>• Disinfectants</li><li>• Livestock Production Manual</li><li>• Ropes</li><li>• Livestock Production Manual</li><li>• HACCP plan</li></ul>
--	---	--