

## MILKING DAIRY ANIMALS

**ISCED UNIT CODE:** 0811 241 03A

**TVETCDACC UNIT CODE:**DA/CU/FM/CR/03/3/MA

### Relationship to Occupational Standards

This unit addresses the Unit of Competency: Milk dairy animals

**Duration of Unit:** 60 hours

### Unit Description

This unit specifies the competencies required to milk dairy animals. It involves preparing to milk dairy animals, milking dairy animals and complete dairy animal milking.

### 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 milk dairy animals | 15               |
| 2.           | Milk dairy animals            | 30               |
| 3.           | Complete dairy animal milking | 15               |
| <b>Total</b> |                               | <b>60</b>        |

### Learning Outcomes, Content and Methods of assessment

| Learning Outcome                 | Content   | Methods of assessment   |
|----------------------------------|---|---|
| 1. Prepare to milk dairy animals | 1.1.Milking tools and equipment<br>1.1.1.Milking buckets<br>1.1.2.Sieve<br>1.1.3.Cans<br>1.1.4.Mastitis test kit<br>1.1.5.Strip cup<br>1.1.6.Teat dip cup<br>1.1.7.Portable milking machine<br>1.2.Milking materials and supplies | <ul style="list-style-type: none"><li>• Written tests</li><li>• Observation</li><li>• Oral questions</li><li>• Third party reports</li><li>• Interviewing</li></ul> |

| Learning Outcome                 | Content   | Methods of assessment   |
|----------------------------------|---|---|
|                                  | 1.2.1.Milking salve<br>1.2.2.Udder clothes<br>1.2.3.Mastitis testing reagents<br>1.2.4.Teat dip solution<br>1.2.5.Restricting rope<br>1.3.Milking animals<br>1.3.1.Dairy cattle<br>1.3.2.Dairy goats<br>1.3.3.Camels<br>1.4.PPEs used in milking<br>1.4.1.Hair net<br>1.4.2.Gumboots<br>1.4.3.Face mask<br>1.4.4.overall<br>1.5.Occupational safety and health procedures   |   |
| 2. Milk dairy animals            | 2.1.Animal restraining techniques<br>2.1.1. Crush<br>2.1.2. Milking hoppers<br>2.2.Hygienic milk production<br>2.3.Udder preparation<br>2.4.Mastitis test and prevention<br>2.4.1.California mastitis test<br>2.4.2.Strip cup<br>2.5.Milking methods, techniques and routine<br>2.5.1.Hand milking<br>2.5.2.Machine milking<br>2.6.Post-milking activities<br>2.6.1.Udder disinfection<br>2.6.2.Milk weighing<br>2.6.3.Milk sieving<br>2.7.Milk storage | <ul style="list-style-type: none"> <li>• Observation</li> <li>• Written tests</li> <li>• Oral questions</li> <li>• Interviewing</li> <li>• Third party reports</li> </ul> |
| 3. Evaluate dairy animal milking | 3.1.Milk let down process<br>3.2.Hygienic practice of milking parlor and equipment<br>3.3. Milking machine maintenance  | <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>  |

| Learning Outcome                 | Content  | Methods of assessment  |
|----------------------------------|--|--|
| 4. Complete dairy animal milking | 4.1.Milking parlour and equipment cleaning methods and storage<br>4.2.Documentation of milk yield<br>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
- Practice by the trainee
- Field trips
- Discussions
- Direct instruction

#### Recommended Resources for 25 Trainees

| Functional dairy farm with the following:   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li>• Milking parlour</li> <li>• Milking buckets</li> <li>• Milk holding cans and cooling tanks</li> <li>• Strip cup</li> <li>• Carlifonia Mastitis Test (CMT) kit</li> <li>• Udder cloth</li> </ul> | <ul style="list-style-type: none"> <li>• Teat dip</li> <li>• Disinfectants</li> <li>• Detergents</li> <li>• Hand brooms, brushes and scrubbers</li> <li>• Water</li> <li>• Restraining ropes / chains</li> </ul> | <ul style="list-style-type: none"> <li>• Sieves</li> <li>• Waste management equipment and material</li> <li>• Stationery</li> <li>• Milk record sheets / books</li> <li>• PPEs</li> <li>• Weighing balances</li> </ul> |