

## DAIRY ANIMALS MILKING

**UNIT CODE:** DA/CU/FM/CR/06/3/B

### Relationship to Occupational Standards

This unit addresses the Unit of Competency: Milk dairy animals

**Duration of Unit:** 36 hours

### Unit Description

This unit specifies the competencies required to milk dairy animals. It involves applying food safety measures while carrying out pre- milking preparations; actual milking; post milking activities; and recording of milk production.

### Summary of Learning Outcomes

1. Apply food safety measures to milk dairy animals
2. Prepare to milk dairy animals
3. Milk dairy animals
4. Evaluate dairy animal milking
5. Complete dairy animal milking

### Learning Outcomes, Content and Methods of assessment

Learning Outcome	Content	Methods of assessment
1. Apply food safety measures to milk dairy animals	<ul style="list-style-type: none"><li>• Meaning of food safety</li><li>• Importance of food safety</li><li>• Principles of food safety</li><li>• Prerequisite programmes<ul style="list-style-type: none"><li>○ Meaning and importance of prerequisite programmes</li><li>○ Relevant programmes<ul style="list-style-type: none"><li>▪ Good agricultural practices</li><li>▪ Good manufacturing practices</li><li>▪ Standard Sanitary Operating Procedures</li></ul></li></ul></li><li>• Hazard analysis<ul style="list-style-type: none"><li>○ Significance of hazards</li><li>○ Types and sources of hazards</li><li>○ Methods of hazard control</li></ul></li><li>• Components of HACCP plan<ul style="list-style-type: none"><li>○ Critical control points</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Written tests</li><li>• Oral questioning</li><li>• Observation</li></ul>

<b>Learning Outcome</b>	<b>Content</b>	<b>Methods of assessment</b>
	<ul style="list-style-type: none"> <li>○ Critical control limits</li> <li>○ Monitoring procedures on the control limits</li> <li>○ Corrective actions</li> <li>○ Verification and validation</li> <li>○ Record keeping</li> </ul>	
2. Prepare to milk dairy animals	<ul style="list-style-type: none"> <li>● Milk let down process</li> <li>● Occupational safety and health procedures</li> </ul>	<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>
3. Milk dairy animals	<ul style="list-style-type: none"> <li>● Dairy animal restraining procedure</li> <li>● Hygienic milk production</li> <li>● Mastitis detection and prevention</li> <li>● Milking methods, techniques and routine <ul style="list-style-type: none"> <li>○ Hand milking</li> <li>○ Machine milking</li> </ul> </li> <li>● Milk storage</li> </ul>	<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>
4. Evaluate dairy animal milking	<ul style="list-style-type: none"> <li>● Hygiene monitoring</li> </ul>	<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>
5. Complete dairy animal milking	<ul style="list-style-type: none"> <li>● Milking parlour and equipment cleaning methods and procedures</li> <li>● Communication</li> <li>● Waste disposal</li> </ul>	<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

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>