

## DAIRY FARM STRUCTURES DEVELOPMENT

**UNIT CODE:** DA/CU/FM/CR/01/3/B

### Relationship to Occupational Standards

This unit addresses the Unit of Competency: Develop dairy farm structures

**Duration of Unit:**24 hours

### Unit Description

This unit specifies the competencies required to develop dairy farm structures. It involves applying food safety measures while preparing construction materials and site; participating in construction and repair of dairy farm structure; and ensuring their cleanliness.

### Summary of Learning Outcomes

1. Apply food safety measures to develop dairy farm structures
2. Prepare to develop dairy farm structures
3. Develop dairy farm structures
4. Evaluate construction dairy farm structures
5. Complete dairy farm structures construction

### Learning Outcomes, Content and Methods of assessment

Learning Outcome	Content	Methods of assessment
1. Apply food safety measures to develop dairy farm structures	<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</li></ul>	<ul style="list-style-type: none"><li>• Written tests</li><li>• Oral questioning</li><li>• Observation</li></ul>

Learning Outcome	Content	Methods of assessment
	<ul style="list-style-type: none"> <li>○ Critical control points</li> <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 develop dairy farm structure	<ul style="list-style-type: none"> <li>● Types of farm structures               <ul style="list-style-type: none"> <li>○ Milking parlour</li> <li>○ Cattle sheds</li> <li>○ Zero grazing unit</li> <li>○ Calf pens</li> <li>○ Hay barn</li> <li>○ Silos</li> <li>○ Holding crush</li> <li>○ Spray race</li> <li>○ Plunge dip</li> <li>○ Stores</li> <li>○ Watering troughs</li> <li>○ Feeding troughs</li> <li>○ Fences</li> </ul> </li> <li>● Types of dairy enterprises</li> <li>● Methods of bush clearing</li> <li>● Occupational Safety and Health regulations</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. Develop dairy farm structures	<ul style="list-style-type: none"> <li>● Area measurement</li> <li>● Stone laying</li> <li>● Barbed wire/chain link laying</li> <li>● Pole fixing</li> <li>● Components of dairy farm structures</li> </ul>	<ul style="list-style-type: none"> <li>● Observation</li> <li>● Written tests</li> <li>● Oral questions</li> <li>● Interviewing</li> </ul>
4. Evaluate construction of dairy farm structures	<ul style="list-style-type: none"> <li>● Structure repair and cleaning procedures</li> </ul>	<ul style="list-style-type: none"> <li>● Observation</li> <li>● Written tests</li> <li>● Oral questions</li> <li>● Interviewing</li> </ul>

Learning Outcome	Content	Methods of assessment
5. Complete dairy farm structures construction	<ul style="list-style-type: none"> <li>• Type of materials</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>• Tractors</li> <li>• Trailer</li> <li>• Slashers</li> <li>• Crowbar</li> <li>• Hammer</li> <li>• Nails</li> <li>• Saw</li> </ul>	<ul style="list-style-type: none"> <li>• Poles</li> <li>• Stones</li> <li>• Sand</li> <li>• Cement</li> <li>• Ballast</li> <li>• Tape measures</li> <li>• Barbed/chain link</li> </ul>	<ul style="list-style-type: none"> <li>• Metal bars</li> <li>• Land</li> <li>• Live fence planting materials</li> <li>• Hoe</li> </ul>