



Development of learning material for the dairy occupational curriculum and qualification.

(PRJ-0043-2014)

Milk Producers Organisation

Year 2014/2014 (January 2014 till December 2014)

Project goals

Goal 1 - Finalize the development and evaluation of the learning material aligned to the knowledge module specification for the Dairy Farm Worker, Dairy Farm Supervisor and Farm Dairy Herd Manager

Achievements

The following knowledge modules for the Dairy Farm Worker, Dairy Farm Supervisor and Dairy Farm Manager have been completed and verified:

DAIRY FARM WORKER AND DAIRY FARM SUPERVISOR

MODULE 1: SOUTH AFRICAN DAIRY FARMING ENVIRONMENT

1. Introduction to the South African dairy industry
2. Dairy breeds
3. Basic dairy farming business concepts

MODULE 2: DAIRY CALF AND HEIFER REARING, FEEDING AND HEALTH CARE

1. Introduction to dairy calf and heifer health care
2. Calf rearing systems
3. Hygiene and care
4. Calf feeding concepts
5. Awareness of dairy calf diseases
6. Calf and heifer care and production concepts

MODULE 3: DAIRY ANIMAL HEALTH CARE

1. Diagrammatic illustrations and basic functions of the anatomical system
2. General dairy livestock health
3. Awareness of causes of disease in dairy animals
4. Health assessment
5. Parasites and basic lifecycles
6. Farm bio-security and risk prevention (including zoonotic diseases)

MODULE 4: DAIRY ANIMAL PRODUCTION

1. Animals herding and handling practices
2. Dairy animal breeding concepts
3. Water supply systems on dairy farms
4. Fencing on a dairy farm

MODULE 5: DAIRY LIVESTOCK FEEDING

1. Dairy feed types and feeding practices

2. Feeding of heifers
3. Feeding of cows in milk
4. Feeding of dry cows
5. Feeding facilities and equipment

MODULE 6: MILK HARVESTING AND IN-PARLOUR PROCESSING

1. Milk harvesting facilities
2. Udder health
3. The milk harvesting process
4. Dairy parlour equipment and systems
5. Dairy parlour hygiene
6. Essential production records
7. Composition of milk and quality indicators
8. In-parlour processing and quality control concepts

MODULE 7: TEAM LEADERSHIP

1. Introductory supervision concepts
2. Performance standards concepts
3. Motivation and team leadership concepts
4. Interpersonal relations
5. First line discipline
6. Work efficiency and effectiveness

DAIRY FARM MANAGER

MODULE 8: DAIRY FARM PRODUCTION MANAGEMENT

1. Dairy farm design concepts
2. Dairy animal breeding
3. Dairy animal nutrition
4. Dairy animal health management

MODULE 9: FARM BUSINESS MANAGEMENT

1. Farm business management
2. Farm labour management
3. Financial and stock management
4. Natural resource management
5. Introductory overview of dairy farming related legislation

An extra module, based on the Dairy Standard Agency's (DSA) Code of practice for milk producers, which include acts, regulations and guidelines applicable to the safety and quality of raw milk, were also developed.

MODULE 10: OCCUPATIONAL HEALTH AND SAFETY - CODE OF PRACTICE FOR MILK PRODUCERS

1. Introduction to the Code of Practice for Milk Producers
2. Structural requirements and machine maintenance
3. Good milking practices
4. Animal health and welfare
5. Hygiene
6. Documentation
7. Standards and quality control for raw milk

(Module 6 - 10 to be submitted for editing and layout in 2015)

No Non-achievements / underperformance has been reported

Goal 2 - Finalize the Internal Assessment Instruments for the knowledge module specification for the Dairy Farm Worker, Dairy Farm Supervisor and Farm Dairy Herd Manager

Achievements

Internal assessment instruments for the knowledge module specification for the Dairy Farm Worker, Dairy Farm Supervisor and Dairy Herd Manager have been completed (Module 1 - 9).

Module 1: The South African Dairy farming environment

Module 2: Dairy calf and heifer rearing, feeding and health care

Module 3: Dairy animal health care

Module 4: Dairy animal production

Module 5: Dairy livestock feeding

Module 6: Milk harvesting and in-parlour processing

Module 7: Team leadership

Module 8: Dairy farm production management

Module 9: Farm business

Module 10: Occupational Health and Safety - Code of Practice for Milk Producers

No Non-achievements / underperformance has been reported

Goal 3 - Finalize the practical learning exercises and required resources aligned with the practical modules for the Dairy Farm Worker, Dairy Farm Supervisor and Farm Dairy Herd Manager

Achievements

The practical learning exercises (logbook) aligned with the practical modules for the Dairy Farm Worker, Dairy Farm Supervisor and Dairy Herd Manager have been completed.

Practical learning exercises include:

1. Perform calf rearing, production and health care practices
2. Perform animal production and health care practices
3. Prepare feed and feed cows in milk
4. Harvest milk, attend to milk parlour hygiene and equipment
5. Attend to dairy parlour water treatment and waste water.
6. Lead and direct work teams
7. Initiate and maintain first line discipline.
8. Keep dairy farm records.

The material was submitted to AgriSeta for verification and approval. Changes and adaptations were made after several consultation sessions.

No Non-achievements / underperformance has been reported

Income and expenditure statement

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|------------------------------------|---------------------------|
| Income and expenditure statement | No file has been uploaded |
| Unnecessary spending during period | No |

Popular Report

No file has been uploaded

Additional documentation

Statement

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|---|-----|
| Levy funds were applied only for the purposes stated in the contract | Yes |
| Levy funds were applied in an appropriate and accountable manner | Yes |
| Sufficient management and internal control systems were in place to adequately control the project and accurately account for the project expenditure | Yes |
| The information provided in the report is correct | Yes |