

## **Introduction to Dairy Herd Management**

### **Lesson 1: What to Manage on a Dairy Farm**

*At the conclusion of the lesson, the student will be able to:*

1. Discuss necessary records for the Milking Parlor, Feed Management, and Animal Management to teacher satisfaction.
2. List key production and management benchmarks for dairy farms with 100% accuracy.
3. List 5 individuals that benefit from accurate farm records with 100% accuracy.

### **Lesson 2: How is a Milking Parlor Managed?**

*At the conclusion of the lesson, the student will be able to:*

1. Identify 7 key components of a milking parlor with 100% accuracy.
2. Describe (verbally) 6 steps of the milking procedure to teacher satisfaction.
3. Explain the correct procedure to conduct a California Mastitis Test with 100% accuracy.

### **Lesson 3: Balancing a Cow's Diet**

*At the conclusion of the lesson, the student will be able to:*

1. Identify 10 common feedstuffs & by-products used on Pennsylvania dairy farms with 100% accuracy.
2. Describe the role of a nutritional consultant on the farm's management team to teacher satisfaction.
3. Analyze key information a forage analysis sheet to teacher satisfaction.

### **Lesson 4: Arranging a Dairy**

*At the conclusion of the lesson, the student will be able to:*

1. Discuss grouping techniques for the milking herd and dry cows with 100% accuracy.
2. Describe housing options for calves and heifers on a dairy farm to teacher satisfaction.
3. Create a set of Best Management Practices (BMPs) for animal care on a dairy farm to teacher satisfaction.

### **Lesson 5: Monitoring Herd Health**

*At the conclusion of the lesson, the student will be able to:*

1. Define dairy quality assurance with 100% accuracy.
2. Demonstrate the ability to administer an intramuscular and subcutaneous injection to teacher satisfaction.
3. List the signs and symptoms for 10 common diseases/disorders that occur in dairy animals with 100% accuracy.
4. Analyze an animal health case study and provide a diagnosis/treatment plan to teacher satisfaction.

### **Lesson 6: Dairy Reproduction**

*At the conclusion of the lesson, the student will be able to:*

1. Recall the length of the gestation period in dairy cattle with 100% accuracy.
2. Identify key hormones utilized during estrus synchronization protocols with 100% accuracy.
3. Label 6 parts of the female reproductive tract with 100% accuracy.
4. Discuss the correct procedure for artificial insemination to teacher satisfaction.

### **Lesson 7: How are DHIA Records Interpreted on a Dairy Farm?**

*At the conclusion of the lesson, the student will be able to:*

1. Recall 5 Key Performance Indicators provided on a DHI-202 report with 100% accuracy.
2. Interpret production and reproduction data from a sample DHIA report with 100% accuracy.

### **Lesson 8: Conservation is Key**

*At the conclusion of the lesson, the student will be able to:*

1. Describe manure management techniques utilized by dairy farmers to teacher satisfaction.
2. List 5 water conservation practices utilized by farmers to benefit the environment with 100% accuracy.