

APPENDIX A

DAIRY GRAZIER

(Time-Based)

D.O.T. CODE 180.167-026

O*NET CODE 11-9013.02

This training outline is the current standard for Work Processes and Related Instruction. Changes in technology, regulations, and safety & health issues may result in the need for additional on-the-job or related instruction.

WORK PROCESSES

Approximate Hours

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| A. <u>Workplace Orientation</u> | 150 |
| 1. Demonstrate understanding of farm as a workspace. | |
| 2. Demonstrate understanding of workplace procedures and policies. | |
| 3. Demonstrate safe work practices and knowledge of safety considerations, including but not limited to: electrical hazards, tractor and equipment shutoffs, first aid supplies, fire extinguishers. | |
| 4. Develop and demonstrate understanding of cattle, including behavior, production expectations. | |
| B. <u>Pasture Management</u> | 800 |
| 1. Design and layout rotational pastures and paddocks, including installing and maintaining grazing fences. | |
| 2. Identify appropriate plants, grasses, and legumes. | |
| 3. Monitor plant health and productivity. | |
| 4. Control weeds, overseed and renovate pastures. | |
| 5. Utilize soil fertility information to inform pasture decision-making. | |
| 6. Calculate stocking rates. | |
| 7. Allocate appropriate rest periods of grass. | |
| 8. Maintain accurate pasture records. | |
| C. <u>Cattle Management</u> | 800 |
| 1. Feed cattle. | |

2. Move and handle livestock safely.
3. Manage cow breeding cycles.
4. Manage herd health.
5. Optimize versus maximize milk production.
6. Maintain cattle breeding and inventory records.
7. Manage feed inventory, including feeds for non-grazing season.
8. Develop contingency plans for weather, prices, and unknowns.

D. Milking Operations 800

1. Service and maintain milking equipment.
2. Develop milking protocols.
3. Manage milk cow environment.
4. Perform milk testing.
5. Manage milk quality.
6. Maintain milk production records.

E. Nutritional Assessment 400

1. Select appropriate feed; select quality feed.
2. Monitor feed, grain and supplemental nutrition.
3. Store grain and supplemental feed.
4. Strategize ways to optimize yield from pasture(s).
5. Determine daily pasture allowance.
6. Plan for winter nutritional needs.

F. Information Management 200

1. Develop an understanding of information needed to manage farm operations.
2. Use a computer to access dairy grazing-related information and to acquire and access all manner of farming-related information, such as commodity pricing.
3. Perform a general business analysis.
4. Analyze farm's financial resources.
5. Show ability to adapt to changing circumstances, both financial and environmental.

G. Natural Resources Management 200

1. Describe interrelationships between soil health, fertility, and pasture productivity.
2. Coordinate planting and growing seasons with animal needs.
3. Explain differences between organic and non-organic agronomy.
4. Assess, manage, and maintain soil and water quality.
5. Irrigate soil.
6. Practice land conservation.
7. Manage pests when needed.
8. Fertilize pastures; manage manure.

H. Farming Business Operations 150

1. Demonstrate effective time management, including chore time reduction and efficiencies.
2. Make a business plan.
3. Recruit employees (if applicable).
4. Balance profitability with community impact.

I. Dairy Farm Activities (*Optional) 212

1. Evaluate organic farming markets.
2. Monitor food and milk markets.
3. Maintain grazing machinery, facilities, and equipment.
4. Other duties dependent on need or interest.

Total Hours 3712

*If Optional Work Process is not selected, the hours should be devoted to further mastery of the other required work processes.

Apprenticeship work processes are applicable only to training curricula for apprentices in approved programs. Apprenticeship work processes have no impact on classification determinations under Article 8 or 9 of the Labor Law. For guidance regarding classification for purposes of Article 8 or 9 of the Labor Law, please refer to <http://www.labor.state.ny.us/workerprotection/publicwork/PDFs/Article8FAQA.pdf>

APPENDIX B

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RELATED INSTRUCTION

Safety/Health/Environment

General Workplace Safety
Right-to-Know/Safety Data Sheets (SDS)
Personal Protective Equipment (PPE)
First Aid & CPR (minimum 6.5 hours every 3 years)
Sexual Harassment Prevention Training (minimum 3 hours)

Trade Theory, Science, and Skills

Math/Business Math /Geometry
Computer Literacy
Information Management
Farm Terminology
Agronomy and Holistic Farming
Dairy Nutrition and Health
Feed Nutrition
Soils, Nutrients, and Composting
Cattle
Grazing
Pastures and Paddocks
Milk and Milking

Additional Courses as Necessary.

A Total of 288 Hours of Related Instruction is Required for Each Apprentice.