



CURRICULUM I DUAL VOCATIONAL TRAINING “FARMER” FOR STUDENTS WITH LEARNING DIFFICULTIES



HANSE-PARLAMENT

Network for Small and Medium Enterprises



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NON-FORMAL VOCATIONAL TRAINING PROGRAMME

1. DESCRIPTION OF THE PROGRAMME

1.1 Title of the programme

Farmer

1.2. Programme's national code (to be assigned upon registration of the programme)

1.3. Education

Agriculture

1.4. Education subfield/subfields

Crop/livestock production

1.5. Programme coverage in learning credits

35

1.6. Programme coverage in academic hours for contact work and distribution between theoretical and practical training

540 academic hours for contact work, of which 162 academic hours for theoretical training and 378 academic hours for on-the-job training.

1.7. Minimum requirements for enrolment in the programme

Primary education

1.8. Competences acquired or developed in the programme

Name of competency	<i>Qualification title, level according to the Lithuanian Qualifications Framework, its national code</i>	Title of the professional standard, its national code
To prepare the soil for growing agricultural crops.	Agricultural assistant, LTKS II	Occupational standard for agriculture, forestry, fishing and food production
Sowing, planting, tending, harvesting and managing agricultural crops.	Agricultural assistant, LTKS II	Occupational standard for agriculture, forestry, fishing and food production
Growing agricultural crops using intensive technology.	Agricultural assistant, LTKS II	Occupational standard for agriculture, forestry, fishing and food production
Looking after and feeding farm animals.	Agricultural assistant, LTKS II	Occupational standard for agriculture, forestry, fishing and food production
Maintain the facilities and equipment used to house farm animals.	Agricultural assistant, LTKS II	Occupational standard for agriculture, forestry, fishing and food production

Prepare farm animals for transport.	Agricultural assistant, LTKS II	Occupational standard for agriculture, forestry, fishing and food production
Optional modules (5 learning credits in total)*		
Look after and feed the sheep.	Agricultural assistant, LTKS II	Occupational standard for agriculture, forestry, fishing and food production
Maintain the sheep housing and the equipment used.	Agricultural assistant, LTKS II	Occupational standard for agriculture, forestry, fishing and food production
Maintain the facilities for the pre-preparation and packaging of crop products.	Agricultural assistant, LTKS II	Occupational standard for agriculture, forestry, fishing and food production
Carry out the initial preparation of crop production for marketing.	Agricultural assistant, LTKS II	Occupational standard for agriculture, forestry, fishing and food production
Packing crop production.	Agricultural assistant, LTKS II	Occupational standard for agriculture, forestry, fishing and food production



2. PROGRAMME CONTENT

Module name (country code)	Module LTKS level	Competence(s)	Learning outcomes indicating achievement of the competence(ies)	Module coverage in learning credits	Academic hours for contact work		
					For theoretical teaching	For practical training	Total
Growing agricultural crops	II	To prepare the soil for growing agricultural crops.	<p>Describe the timing and methods of cultivation.</p> <p>Outline the benefits and types of crop rotations.</p> <p>Identify types of organic and mineral fertilisers and methods of fertilisation.</p> <p>Describe in general terms weeds, their damage and methods of eradication.</p> <p>Prepare the soil for sowing and planting agricultural crops.</p> <p>Carry out fertilisation work on agricultural crops under the direction of more qualified staff.</p> <p>Eradicate weeds as directed by more highly</p>	15	81	189	270



			qualified staff.				
		Sowing, planting, tending, harvesting and managing agricultural crops.	<p>Identify the timing and methods of sowing, planting and harvesting agricultural crops.</p> <p>Describe the maintenance of agricultural plants.</p> <p>Prepare seed and planting material for sowing and planting agricultural crops.</p> <p>Sowing and planting agricultural crops.</p> <p>Carry out maintenance work on agricultural crops.</p> <p>Harvest agricultural crops.</p> <p>Manage the harvest of agricultural crops at the place of storage.</p>				
		Growing agricultural crops using intensive technology.	Describe in general terms the intensive				



			<p>technologies used for the production of agricultural crops.</p> <p>To manage cereals, storage crops, technical crops, sedum, intercrops, fodder crops during the growing season using intensive technologies.</p> <p>Care of horticultural plants during the growing season using intensive technology.</p>				
Raising farm animals	II	Looking after and feeding farm animals.	<p>Outline the welfare requirements for farm animals.</p> <p>Define the requirements for the storage of feed for farm animals.</p> <p>Prepare and ration feed according to the type of farm animal.</p> <p>Carry out the care of sick farm animals as directed by a</p>	15	81	189	270



			<p>veterinarian.</p> <p>Perform filling and cleaning of feeding machines and watering systems.</p> <p>To guard farm animals to and from the pasture.</p>				
		<p>Maintain the facilities and equipment used to house farm animals.</p>	<p><i>Outline the requirements for keeping farm animals indoors and on pasture.</i></p> <p><i>Manage the farm premises and equipment under the direction of more senior staff.</i></p> <p><i>Disinfect the premises and apply preventive measures against rodents, as instructed by the higher qualified personnel.</i></p> <p><i>Maintain the pastures and their facilities.</i></p> <p><i>Sorting and managing waste produced in the livestock housing facilities.</i></p>				



		<p>Prepare farm animals for transport.</p>	<p>Identify the requirements for the transport of farm animals.</p> <p>Pack and sort farm animals for transport.</p> <p>Load and unload farm animals in accordance with the requirements for loading and unloading farm animals from vehicles.</p>				
<p>Preparing crop production for marketing</p>	<p>II</p>	<p>Maintain the facilities for the pre-preparation and packaging of crop products.</p> <p>Carrying out the initial preparation of crop</p>	<p>Describe the functions of pre-preparation and packaging plants for crop products</p> <p>Prepare the equipment for the pre-treatment and packaging of crop products according to the instructions.</p> <p>Clean the equipment, tanks and other equipment used.</p> <p>Describe the types of crop production and</p>	<p>5</p>	<p>41</p>	<p>94</p>	<p>135</p>



		<p>production for marketing</p> <p>Packaging crop production</p>	<p>qualitative indicators.</p> <p>Perform simple preparation and primary processing of crop raw materials.</p> <p>Clean up the workplace and waste.</p> <p>Describe the packaging materials, labelling and packaging tools used to package crop production.</p> <p>Perform simple packaging operations for crop production.</p> <p>Label crop production.</p>				
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Sheep care and feeding	II	Look after and feed the sheep. Maintain the sheep housing and the equipment used.	Outline the feed and feeding characteristics of sheep Describe the care requirements for sheep. Prepare and ration feed according to the age and season of the sheep. Care of sheep kept in sheepfolds and pastures Outline the requirements for the housing and grazing of sheep Manage the sheep sheds Maintenance of sheep pastures and their facilities.	5	41	94	135
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3. MODULE DESCRIPTIONS

Module title - "Growing agricultural crops"

National code	
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Module LTCS level	II				
Volume in learning credits	15				
Requirements for personal readiness to study in the module (if applicable)	Basic education				
Competences	Learning outcomes	Recommended content for achieving learning outcomes	Academic hours for contact work		
			For theoretical teaching	For practical training	Total
1. Prepare the soil for growing agricultural crops.	1.1 Describe the timing and methods of cultivation.	Topic. Soil composition and properties <ul style="list-style-type: none"> - Physical properties of soil - Soil mechanical composition - Practical determination of tillage time - Acidity of the soil and its determination from naturally occurring plants 	2	6	8
		Topic. Tillage methods and tools <ul style="list-style-type: none"> Basic tillage Pre-sowing tillage Tillage tools 	2	6	8

	1.2.Outline the benefits and types of crop rotations.	<ul style="list-style-type: none"> • Topic. Benefits of crop rotation • The concept of crop rotation • The agrotechnical significance of crop rotation • Selection of pre-crops - 	2	4	6
		Topic. Types of crop rotations <ul style="list-style-type: none"> • Classification of crop rotations • Crop rotations 	2	6	8
		Topic. Soil <ul style="list-style-type: none"> • Acidity of the soil, dominant plants in acidic soils • Liming the soil • Plants that tolerate acid soil • Plants tolerant of alkaline soil • - Soil substrates 	2	6	8
	1.3. Identify the types of organic and mineral fertilisers and methods of fertilisation.	Topic. Fertilisers and their types <ul style="list-style-type: none"> • Single-row mineral fertilisers • Compound and complex mineral fertilisers • Micronutrient fertilisers • - Organic fertilisers 	2	6	8
		Topic. Fertilisation methods <ul style="list-style-type: none"> • Basic fertilisation • Additional fertilisation • - Localised fertilisation 	2	4	6

	1.4. Describe in general terms weeds, the damage they cause and how to control them.	Topic. Weeds and their classification	2	6	8
		<ul style="list-style-type: none"> - Classification of weeds 	2	4	6
	1.5. Preparing the soil for sowing and planting agricultural crops.	Topic. Soil preparation for sowing agricultural crops	2	6	8
		<ul style="list-style-type: none"> Autumn tillage Spring tillage - Pre-sowing tillage 			
		Topic. Soil preparation for planting agricultural crops	2	4	6
		<ul style="list-style-type: none"> Soil preparation for planting seedlings 			
		Topic. Soil preparation in the field and in the greenhouse	2	4	6
		<ul style="list-style-type: none"> Eradicating weeds Shake the soil - Levelling the soil surface 			
	1.6. Carry out fertilisation work on agricultural crops as instructed by more highly qualified staff.	Topic. Fertilising agricultural crops under the instructions of higher-qualified workers	2	6	8
		<ul style="list-style-type: none"> Fertiliser rates for agricultural crops Health and safety of workers during fertilisation of agricultural crops - Fertilisation of agricultural crops 			



		<p>Topic. Maintenance of fertiliser equipment for agricultural crops</p> <ul style="list-style-type: none"> • Visual inspection of fertiliser spreaders • Loading and unloading fertiliser • Maintenance and cleaning of fertiliser spreaders 	2	4	6
	1.7. Weed control under the direction of more skilled staff	<p>Topic. Weed control methods</p> <ul style="list-style-type: none"> • - Agrotechnical weed control • - Physical-mechanical weed control • - Biological weed control • - Chemical weed control 	2	4	6
		<p>Topic. Weed control under the direction of a more highly qualified worker</p> <ul style="list-style-type: none"> • - Mowing, weeding, weed seed control • - Thermal weed control 	2	4	6
2. 2. Sowing, planting, tending, harvesting and managing agricultural	2.1. Identify the timing and methods of sowing, planting and harvesting agricultural	<p>Topic. Sowing agricultural crops</p> <ul style="list-style-type: none"> • - Quality requirements for agricultural seed 	2	6	8



crops	crops.	<ul style="list-style-type: none"> - Methods of sowing agricultural crops - Sowing time of agricultural crops - Timing of planting of agricultural plant seedlings and saplings 			
		<p>Topic. Planting agricultural crops</p> <ul style="list-style-type: none"> - Quality requirements for seedlings and seedlings of agricultural plants - Methods of planting seedlings and saplings of agricultural plants • 	2	4	6
		<p>Topic. Harvesting agricultural crops</p> <ul style="list-style-type: none"> • Methods and timing of harvesting agricultural crops • Harvesting methods and timing for garden and horticultural crops 	2	4	6
	2.2. Describe the maintenance of agricultural plants.	<p>Topic. Agrotechnical maintenance of agricultural plants</p> <ul style="list-style-type: none"> - Rolling, harrowing, hoeing, hoeing, thinning, stone collection - Meteorological maintenance of agricultural plants 	2	4	6



		<p>Topic. Chemical maintenance of agricultural plants</p> <ul style="list-style-type: none"> • Weed control for agricultural plants • Disease management of agricultural plants • Agricultural plant maintenance work against pests 	2	4	6
	2.3. Prepare seeds and planting material for sowing and planting agricultural crops.	<p>Topic. Seed preparation for sowing agricultural crops</p> <ul style="list-style-type: none"> • Cleaning agricultural seeds • Sorting agricultural seeds • Agricultural plant seed dressing 	2	4	6
		<p>Topic. Preparation of seedlings of agricultural plants for planting</p> <ul style="list-style-type: none"> • Straightening of agricultural plant seedlings • Grading of agricultural plant seedlings • Packing and marking of agricultural plant seedlings • Storage of agricultural plant seedlings 	2	6	8



		Topic. Preparation of seedlings for planting <ul style="list-style-type: none"> • Digging and marking seedlings • - Transport and storage of seedlings 	2	4	6
2.4. Sowing and planting agricultural crops.		Topic. Sowing agricultural crops <ul style="list-style-type: none"> • Visual inspection of seed drills • Seed loading and filling • - Maintenance and cleaning of seed drills 	2	6	8
		Topic. Planting agricultural crops <ul style="list-style-type: none"> • Planting potatoes • Planting seedlings of agricultural crops • Planting seedlings of agricultural plants 	2	4	6
2.5. Carry out maintenance work on agricultural crops		Topic. Agri-technical maintenance of agricultural crops <ul style="list-style-type: none"> • Thinning, weeding, loosening of agricultural crops • Additional fertilisation of agricultural crops 	2	4	6
		Topic. Transplanting of agricultural crops <ul style="list-style-type: none"> • Replanting, transplanting of agricultural crops • Irrigation of agricultural crops 	2	4	6



	2.6. Harvest agricultural crops.	Topic. Harvesting cereals <ul style="list-style-type: none"> • Harvesting brassicas • Harvesting pulses • Straw management 	2	4	6
		Topic. Harvesting of storage crops <ul style="list-style-type: none"> • Harvesting potatoes • Harvesting beet • Cultivation of storage crops • transport and preparation for storage 	2	4	6
		Topic. Harvesting oilseeds <ul style="list-style-type: none"> • Harvesting oilseed rape • Harvesting flax, hemp 	2	2	4
		Topic. Harvesting garden and horticultural crops <ul style="list-style-type: none"> • Harvesting garden plants • Harvesting vegetable crops • Transporting and preparing garden and horticultural plants for storage 	1	3	4
	2.7. Manage the harvest of agricultural crops at the place of storage.	Topic. Primary cleaning of field crops <ul style="list-style-type: none"> • Seed cleaning and sorting • Cleaning and grading of roots and tubers 	2	4	6



		<p>Topic. Primary cleaning and grading of horticultural crops</p> <ul style="list-style-type: none"> • Cleaning and grading of horticultural crops • - Cleaning and grading of garden crops 	1	3	4
3. Growing agricultural crops using intensive technology.	3.1. Describe in general terms the intensive technologies used for the production of agricultural crops.	<ul style="list-style-type: none"> • Topic. Technologies for intensive cultivation of cereal crops • - Intensive cultivation technologies for brassicas • - Intensive cultivation technologies for leguminous cereals • - Intensive cropping technologies for oilseeds • 	2	6	8
		<p>Topic. Intensive cropping technologies for storage crops</p> <ul style="list-style-type: none"> • - Intensive cultivation technologies for potatoes • - Sugar beet intensive cultivation technologies 	1	3	4
		<p>Topic. Technologies for intensive cultivation of garden plants</p> <ul style="list-style-type: none"> • Intensive cultivation technologies for fruit trees • Intensive cultivation technologies for fruit bushes • Intensive cultivation technologies for strawberries 	1	3	4



		<p>Topic. Technologies for intensive cultivation of horticultural plants</p> <ul style="list-style-type: none"> • Intensive cultivation technologies for fruit vegetables • Intensive cultivation technologies for leafy vegetables • Intensive cultivation technologies for blossom vegetables • Intensive cultivation technologies for onion vegetables • - Intensive production technologies for root vegetables 	1	3	4
	<p>3.2. Maintenance of cereals, storage, technical, sideration, intercrops, fodder crops during the growing season using intensive technology.</p>	<p>Topic. Maintenance of cereal crops using intensive technologies</p> <ul style="list-style-type: none"> • Cultivation care of bell crops during the growing season • Maintenance of leguminous crops during the growing season 	2	4	6
		<p>Topic. Management of storage crops using intensive technologies</p> <ul style="list-style-type: none"> • Care of potatoes during the growing season • Sugar crop maintenance during the growing season 	2	4	6

		<p>Topic. Maintenance of technical and other crops using intensive technologies</p> <ul style="list-style-type: none"> • Growing season care of oilseed rape • In-vegetation care of flax • - Maintenance of sedum, intercrops and fodder crops during the growing season 	2	4	6
	3.3. Maintain garden and horticultural plants during the growing season using intensive techniques.	<p>Topic. Garden plant care using intensive technologies</p> <ul style="list-style-type: none"> • Care of orchard plants during the growing season • Care of berry bushes during the growing season • - Strawberry care during the growing season 	2	4	6
		<p>Topic. Care of vegetable garden plants using intensive technologies</p> <ul style="list-style-type: none"> • Care of fruit vegetables during the growing season • Growing season care of leafy vegetables • Growing season care of flowering vegetables • Growing season care of bulb vegetables • - Growing season care for root vegetables 	2	4	6
Criteria for assessing learning outcomes	It outlines the timing, methods, tools, benefits and types of crop rotations. Types of organic and mineral fertilisers and methods of fertilisation are identified. The damage caused by weeds and the methods of eradicating them. Soil				

	<p>preparation for sowing and planting agricultural crops. Carried out fertilisation and weed control work on agricultural crops, following the instructions of more qualified staff. Timing and methods of sowing, planting and harvesting of agricultural crops identified. Describes the maintenance of agricultural crops. Seed and planting material (seedlings and seedlings) for sowing and planting of agricultural crops. Sowing, planting of agricultural crops. Agricultural crop maintenance work carried out. Harvesting of agricultural crops. Harvest of agricultural crops managed at the place of storage. Outline the intensive technologies used for the production of agricultural crops. The intensive technologies include the maintenance of cereals, cover crops, technical crops, sideration crops, intercrops, fodder crops and horticultural crops during the growing season.</p> <p>Appropriate work clothing and footwear and personal protective equipment were worn. The work was carried out in compliance with occupational health and safety rules, safe working practices, ergonomics, occupational hygiene, fire safety and environmental protection requirements. Cleaning of tools at the end of the work. Tools, materials and equipment were placed in their storage place and the workplace and waste were tidied up. The activity was carried out in accordance with the task and instructions given by the higher-qualified worker.</p>
<p>Requirements for methodological and material resources for teaching</p>	<p>Teaching (training) materials:</p> <ul style="list-style-type: none"> - Textbooks and other teaching materials - Test to assess competences - Occupational safety and health requirements - Requirements for the storage and storage of agricultural plants - Procedures for the control of the storage, use and accounting of fertilisers, requirements of good farming practice, rules of good plant protection practice <p>Training measures:</p> <ul style="list-style-type: none"> - Technical tools to illustrate and visualise the teaching material - Visual aids, examples of seeds, agricultural crops and fertilisers - Hand tools for tillage, plant care <p>Work clothing, footwear, personal protective equipment</p>
<p>Requirements for the theoretical and practical training site</p>	<p>A classroom or other room equipped with technical means (computer, internet access, multimedia projector or interactive screen) for presenting teaching/learning material.</p> <p>A classroom (room) for practical training, equipped with tools and equipment for the care of agricultural plants (pruning, fertilisation, protection against diseases, pests and weeds, watering), harvesting and storage.</p>



Qualification and competence requirements for teachers (lecturers)	<p><i>The module can be taught by a teacher who has:</i></p> <ol style="list-style-type: none"><i>1) the education and qualification set out in the Law on Education of the Republic of Lithuania and in the Description of Requirements for the Qualification of Teachers, approved by the Order of the Minister of Education and Science of the Republic of Lithuania No V-774 of 29 August 2014 on the approval of the Description of Requirements for the Qualification of Teachers;</i><i>2. a degree in agricultural studies or equivalent, or secondary education and a qualification as an agricultural production business worker or equivalent, at least 3 years of professional experience in agricultural work and a certificate of completion of a course in pedagogical and psychological knowledge.</i>
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Module title - "Farm animal husbandry "

National code	
Module LTCS level	II
Volume in learning credits	15
Requirements for personal	Basic education

readiness to study in the module (if applicable)					
Competences	Learning outcomes	Recommended content for achieving the learning outcomes	Academic hours for contact work		
			For theoretical training	For practical training	Total
1. 1. Looking after and feeding farm animals.	1.1. Outline the welfare requirements for farm animals.	Topic. The importance and significance of farm animal welfare <ul style="list-style-type: none"> • The concept of farm animal welfare • Rights and freedoms of farm animals 	3	6	9
		Topic. Requirements for the welfare of farm animals <ul style="list-style-type: none"> • Welfare requirements for farmed animals • Welfare requirements for calves • Welfare requirements for pigs • Welfare requirements for laying hens • - Welfare requirements for broiler chickens 	2	4	6
	1.2. Describe the requirements for the storage of feed for farm animals	Topic. Requirements for the storage of feed for farmed animals <ul style="list-style-type: none"> • Feed storage facilities and hygiene requirements • Conditions for the storage of feed • Hygiene requirements 	2	7	9



		(rules) for feed for primary production			
		Topic. Occupational safety and hygiene requirements <ul style="list-style-type: none"> • Safety at work • Occupational hygiene 	2	6	8
	1.3. Prepare and ration feed according to the type of farm animal.	Topic. Feed for farm animals <ul style="list-style-type: none"> • Coarse feeds • Succulent feeds • Concentrated feedingstuffs - 	3	6	9
		Topic. Feed preparation <ul style="list-style-type: none"> • Preparation of hay • Hay production • Silage and barley production • Preparation of cereal feed (milling of feed grains) • - Preparation of succulent forage 	3	9	12



		Topic. Feeding of farm animals and poultry, with feed rationing by type of farm animal <ul style="list-style-type: none"> • Types of livestock feeding and bird feeding • Feeding of dairy cattle • Feeding of fattening cattle • Feeding of pigs • Feeding of birds 	3	9	12
	1.4. Carry out care of sick farm animals as directed by a veterinarian.	Topic. Diseases and prevention in farm animals <ul style="list-style-type: none"> • The main infectious diseases of farm animals and their symptoms • Main non-communicable diseases of farm animals and their signs • - Prevention of diseases in farm animals 	3	6	9
		Topic. Care of sick farm animals <ul style="list-style-type: none"> • First aid in case of illness in farm animals • Carrying out the instructions of a veterinarian • Prevention of diseases in farm animals 	3	9	12



	1.5. Filling and cleaning of feeding machines and watering systems.	Topic. Farm animal feeding machines and watering systems <ul style="list-style-type: none"> • Feeding machines for farm animals • Feeding systems for farm animals 	2	6	8
		Topic. Filling and cleaning of feed preparation and dispensing machines <ul style="list-style-type: none"> • Filling and cleaning of feed preparation machines • - Filling and cleaning of feed dispensing machines 	2	6	8
		Topic. Filling and cleaning of hearing systems <ul style="list-style-type: none"> • Watering farm animals on pasture • Watering farm animals on farms • Cleaning of watering systems for farm animals 	2	6	8



	1.6. Protecting farm animals to and from grazing	<p>Topic. Preparing farm animals for the grazing season</p> <ul style="list-style-type: none"> • Preparation of livestock for grazing • Getting livestock onto pasture during the transition period <p>-</p>	4	6	10
		<p>Topic. Keeping livestock in pasture during the transitional period</p> <ul style="list-style-type: none"> • Grazing method of housing • Grazing in a paddock 	3	6	9
2. Maintain the facilities and equipment used to house farm animals	2.1. Outline the requirements for keeping farm animals indoors and on pasture.	<p>Topic. Requirements for keeping farm animals indoors</p> <ul style="list-style-type: none"> • Requirements for the accommodation of farm animals • Inspection requirements for farm animals • Maintenance requirements for feeding and watering equipment 	3	6	9
		<p>Topic. Requirements for keeping farm animals on pasture</p> <ul style="list-style-type: none"> • Grazing requirements for livestock • Protection against adverse weather conditions <p>-</p>	2	6	8

	2.2. Cleaning the farm premises and equipment under the direction of more senior staff.	<p>Topic. Management of farm premises under the instructions of higher qualified staff</p> <ul style="list-style-type: none"> • Measures for the management of the farm premises • Cleaning and washing of farm premises • Bleaching of walls • Cracking of sheds 	4	10	14
		<p>Subject. Cleaning of equipment used in the farm premises under the instructions of higher-qualified staff</p> <ul style="list-style-type: none"> • Cleaning agents for equipment used in the farm premises • Health and safety of workers when cleaning equipment used on farm premises • Cleaning of equipment in livestock farms 	4	10	14
	2.3. Disinfecting premises and applying rodent prevention measures, as directed by senior staff.	<p>Topic. Disinfection of livestock housing facilities under the instructions of higher qualified personnel</p> <ul style="list-style-type: none"> • Disinfectants for farm animal housing • Health and safety of workers when disinfecting farm animal housing • Carrying out disinfection work in holding facilities 	3	6	9
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		<p>Topic. Application of preventive measures against rodents in farm animal housing under the instructions of higher qualified personnel</p> <ul style="list-style-type: none"> • Preventive measures against rodents and other pests • Occupational health and safety when carrying out preventive work with preventive measures against rodents and other pests • - Carrying out preventive work with preventive measures against rodents and other pests 	4	10	14
	2.4. Maintain pastures and their facilities.	<ul style="list-style-type: none"> • Topic. Pastures and their maintenance • - Installation of pastures • - Maintenance of grazed grassland • - Management of pastures during grazing • - Preparation of pastures for winter and next year's grazing • - • 	3	9	12
		<ul style="list-style-type: none"> • Topic. Maintenance of pasture facilities • - Grazing equipment and maintenance Watering equipment and its maintenance 	3	7	10

<p>3. Paruošti ūkinius gyvūnus transportuoti.</p>	<p>2.5. Sorting and managing waste generated in farm animal housing facilities.</p> <p>3.1. Specify the requirements for the transport of farm animals</p>	<p>Topic. Types and principles of waste sorting</p> <ul style="list-style-type: none"> Types of litter generated in livestock housing Principles of waste sorting <p>Topic. Manure and wastewater management on farms</p> <ul style="list-style-type: none"> Manure and slurry disposal from barns Operation of manure disposal facilities Environmental requirements for manure and slurry management Wastewater collection and management <p>Topic. Management of animal by-products</p> <ul style="list-style-type: none"> Categories of animal by-products Sorting and management of animal by-products (carcasses, stillbirths, aborted foetuses) <p>Topic. Equipment for the transport of farm animals</p> <ul style="list-style-type: none"> Requirements for loading and unloading equipment Requirements for vehicles and containers <p>Topic. Requirements for the transport of animals by means of vehicles:</p> <ul style="list-style-type: none"> Ventilation and sanitation 	<p>4</p> <p>3</p> <p>2</p> <p>2</p>	<p>8</p> <p>6</p> <p>4</p> <p>4</p>	<p>12</p>
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	<p>3.2. Packing and sorting farm animals for transport.</p>	<p>standards</p> <ul style="list-style-type: none"> • Protection against injuries • Measures for the care and feeding of animals during transport • Transportation in different meteorological conditions <p>Topic. Transport of farm animals to the sorting and loading site</p> <ul style="list-style-type: none"> • Preparation of the sorting and loading bay for the introduction of farmed animals other than poultry • Transport of horses, cattle, pigs, sheep and goats to the sorting and loading bay 	<p>2</p>	<p>4</p>	
	<p>3.3. Load and unload farm animals in accordance with the requirements for loading and unloading farm animals from vehicles</p>	<ul style="list-style-type: none"> • Subject. Sorting of livestock <ul style="list-style-type: none"> ○ Sorting of horses, cattle, pigs, sheep and goats ○ Sorting of birds • Transfer of birds into transport boxes <p>Topic. Loading livestock for transport - Loading facilities and their identification by type of livestock</p> <ul style="list-style-type: none"> - Proper loading of livestock onto the transport vehicle - Care of livestock during long loading 	<p>2</p>	<p>4</p>	
			<p>1</p>		

		<p>Topic. Unloading farm animals from the vehicle</p> <ul style="list-style-type: none"> - Unloading facilities and their identification according to the type of livestock - Proper handling of animals during unloading <p>Responsibility for infringements of animal welfare requirements</p>			
<p>Criteria for assessing learning outcomes</p>	<p>The requirements for the welfare of farm animals and the storage of feed. Feed is prepared and formulated according to the type of farm animal. Care of sick farm animals has been carried out in accordance with the veterinarian's instructions. Filling and cleaning of feeding machines and watering systems were carried out. Farm animals were taken to and from pasture. The requirements for keeping farm animals indoors and on pasture were outlined. Cleaning and disinfecting of the farm premises and the application of rodent prevention measures, in accordance with the instructions of more qualified staff. Pastures and their facilities are properly maintained. Waste generated in the farm animal housing facilities is properly sorted and managed. The requirements for the transport of farm animals are specified. Livestock sorted according to live weight and packed for transport. Farm animals loaded and unloaded in accordance with the welfare of farm animals and the requirements for loading and unloading from vehicles.</p> <p>Wearing appropriate work clothing and footwear and personal protective equipment. The work was carried out in compliance with occupational health and safety rules, safe working practices, ergonomics, occupational hygiene, fire safety and environmental protection requirements. Cleaning of tools at the end of the work. Tools, materials and equipment were placed in their storage place and the workplace and waste were tidied up. The activity was carried out in accordance with the task and instructions given by a more highly qualified worker.</p>				
<p>Requirements for methodological and material resources for teaching</p>	<p>Teaching (training) materials:</p> <ul style="list-style-type: none"> - Textbooks and other teaching materials - Test to assess competences - Occupational safety and health requirements - Operating instructions for feeding machines and watering systems 				



	<ul style="list-style-type: none"> - Welfare requirements for farm animals - Requirements for loading and unloading farm animals from vehicles - Procedures for the registration of holding places for farmed animals and for the marking and recording of farmed animals kept therein - Welfare requirements for laying hens <p>Training measures:</p> <ul style="list-style-type: none"> - Technical means for illustrating, visualising, presenting training material - Examples of feed - Disinfectants and preventive measures against rodents and other pests - Feed preparation, feeding, water supply, manure and waste water management facilities - Work clothing, footwear, personal protective equipment
<p>Requirements for the theoretical and practical training site</p>	<p>A classroom or other room equipped with technical means (computer, internet access, multimedia projector or interactive screen) for presenting teaching/learning material.</p> <p>A classroom (room) for practical training, equipped with working clothes, personal protective equipment, tools and equipment for the care of farm animals (preparation and feeding, watering, grazing) and for the maintenance of the farm premises (manure removal, disinfection, cleaning of the farm).</p> <p>Livestock farm.</p>
<p>Qualification and competence requirements for teachers (lecturers)</p>	<p>The module can be taught by a teacher who has:</p> <ol style="list-style-type: none"> 1) the education and qualification set out in the Law on Education of the Republic of Lithuania and in the Description of Requirements for the Qualification of Teachers, approved by the Order of the Minister of Education and Science of the Republic of Lithuania No V-774 of 29 August 2014 on the approval of the Description of Requirements for the Qualification of Teachers; 2. a degree or equivalent qualification in livestock studies or secondary education and a qualification as an agricultural production business worker or equivalent, at least 3 years of professional experience in agricultural work and a certificate of completion of a course in pedagogical and psychological knowledge.

4. DESCRIPTIONS OF OPTIONAL MODULES

Module title - "Sheep care and feeding "

National code ¹					
Module LTKS level	II				
Coverage in learning credits	5				
Requirements for personal readiness to study in the module (if applicable)	Basic education				
Competences	Learning outcomes		Academic hours for contact work		
			For theoretical teaching	For practical training	Total
1. Caring for and feeding sheep.	1. Outline the feed and feeding characteristics of sheep	Topic. Feeding peculiarities of sheep <ul style="list-style-type: none"> • Nutrient requirements according to age, sex, type of production and breed of sheep • Nutritional intakes for sheep • Methods of feeding sheep 	4	6	10

¹ To be completed if the programme includes a module of a formal vocational training modular programme.

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		Topic. Feed for sheep <ul style="list-style-type: none"> • Coarse feeds • Succulent feeds • Concentrated 	2	4	6
	1.2. Describe sheep care requirements	Topic. Farm animal welfare requirements <ul style="list-style-type: none"> • Concept of animal welfare • - The importance and significance of wellness 	4	6	10
		Topic. Requirements for sheep housing <ul style="list-style-type: none"> • Ventilation of premises • Space heating • - Indoor lighting 	2	6	8
		Topic. Hygiene requirements for sheep care <ul style="list-style-type: none"> • Requirements for the preparation of sheep for shearing • Requirements for the preparation of sheep for milking 	4	8	12

	1.3. Preparing and rationing feed according to the age and season of the sheep.	Topic. Preparing feed for sheep <ul style="list-style-type: none"> • Mechanical feed preparation • Thermal feed preparation • - Hay preparation 	4	6	10
		Topic. Feeding sheep by age and season rationing <ul style="list-style-type: none"> • Feeding sheep during the barn period • Grazing sheep • Fattening of ewes and lambs 	2	6	8
	1.4. Supervise sheep kept in sheepfolds and pastures under the instructions of more qualified staff	Topic. Sheep care in sheepfolds under the direction of a higher-qualified worker <ul style="list-style-type: none"> • Use of water supply facilities • Maintenance of microclimate support equipment • Milking sheep • Shearing of sheep • - Care of sheep during lambing and lambing 	2	8	10
		Tema. Sergančių avių priežiūra pagal ar veterinarijos gydytojo nurodymus <ul style="list-style-type: none"> • Veterinarijos gydytojo nurodymų vykdymas • Sergančių avių atrinkimas ir vaistų sugirdymas • 	2	6	8
2.2. Maintain the sheep housing and the equipment used.	2.1. Outline the requirements for keeping sheep indoors and on pasture.	Topic. Sheep housing during the barn period <ul style="list-style-type: none"> • Daily care requirements for 	2	8	10



		<ul style="list-style-type: none"> sheep - Sheep housing requirements 			
		<p>Topic. Keeping sheep on pasture</p> <ul style="list-style-type: none"> Requirements for keeping sheep outdoors Features of sheep grazing in a paddock Sheep grazing in the paddock features 	2	8	10
	2.2. Cleaning the sheep shed.	<p>Topic. Manure disposal and treatment</p> <ul style="list-style-type: none"> Manure disposal Manure management Environmental requirements for manure management 	3	4	7
		<p>Topic. Other sheep equipment and maintenance</p> <ul style="list-style-type: none"> Sheep feeding and watering equipment and maintenance Sheep handling and weight control equipment and maintenance Sheep shearing and hoofing equipment and maintenance 	2	6	8



	2.3. Maintain sheep pastures and their facilities.	Topic. Sheep pasture care <ul style="list-style-type: none"> • Maintenance of pasture enclosures • Maintenance of sheep feedlots • - Maintenance of grazed grassland 	2	8	10
		Topic. Maintenance of sheep grazing facilities <ul style="list-style-type: none"> • Grazing equipment and maintenance • Drinking equipment and maintenance • - Milking equipment and maintenance 	4	4	8
Criteria for assessing learning outcomes	<p>Sheep feeds are outlined, as well as the specifics of feeding sheep. Sheep care requirements are described. The preparation and formulation of feed according to the age and season of the sheep. Sheep kept in sheepfolds and pastures (shearing, milking and care of sick or lambing sheep) under the guidance of more qualified staff. The requirements for the housing of sheep in sheds and pastures are outlined in general terms. Properly maintained sheep sheds, sheep pasture and facilities.</p> <p>Appropriate work clothing and footwear and personal protective equipment were worn. The work was carried out in compliance with health and safety rules, safe working practices, ergonomics, occupational hygiene, fire safety and environmental protection requirements. Cleaning of tools at the end of the work. Tools, materials and equipment were placed in their storage place and the workplace and waste were tidied up. The activity was carried out in accordance with the task and instructions given by the higher-qualified worker.</p>				
Requirements for methodological and material resources for	Teaching (training) materials:				

<p>teaching</p>	<ul style="list-style-type: none"> - Textbooks and other teaching materials - Test to assess competences - Occupational safety and health requirements - Operating instructions for grazing equipment - Farm animal welfare requirements - Requirements for the preparation, storage and storage of feed - Rules on the technological design of sheep farms - Description of the procedure for the registration of holding places for farmed animals and for the marking and recording of farmed animals kept therein <p>Training measures:</p> <ul style="list-style-type: none"> - Technical tools for illustrating, visualising and presenting training material - Visual aids, feed samples - Tools for shearing, milking, hoof management - Sheep farm disinfectants - Feed preparation, feeding, water supply, feeding and watering equipment, weight control, manure disposal equipment <p>Work clothing, footwear, personal protective equipment</p>
<p>Requirements for the theoretical and practical training site</p>	<p>A classroom or other room equipped with technical means (computer, internet access, multimedia projector or interactive screen) for presenting teaching/learning material.</p> <p>A classroom (room) for practical training, equipped with working clothes, personal protective equipment, tools and equipment for the care of the sheep (feed preparation and feeding, grazing, manure removal, shearing, de-hoofing).</p>



	Sheep farm.
Qualification and competence requirements for teachers (lecturers)	<p>The module can be taught by a teacher who has:</p> <ol style="list-style-type: none"> 1) the education and qualification set out in the Law on Education of the Republic of Lithuania and in the Description of Requirements for the Qualification of Teachers, approved by the Order of the Minister of Education and Science of the Republic of Lithuania No V-774 of 29 August 2014 on the approval of the Description of Requirements for the Qualification of Teachers; 2. a degree or equivalent qualification in livestock studies or secondary education and a qualification as an agricultural production business worker or equivalent, at least 3 years of professional experience in agricultural work and a certificate of completion of a course in pedagogical and psychological knowledge.

Module title - "Preparing crop production for marketing"

National code ²					
Module LTKS level	II				
Coverage in learning credits	5				
Requirements for personal readiness to study in the module (if applicable)	Basic education				
Competences	Learning outcomes	Recommended content for achieving the learning outcomes	Academic hours for contact work		
			For	For	Total

² To be completed if the programme includes a module from a modular formal vocational training programme.

			theoretical teaching	practical training	
1. Maintain facilities for the primary preparation and packaging of crop products.	1.1. Describe the functions of pre-preparation and packaging plants for crop products.	Topic. Preliminary preparation of crop products <ul style="list-style-type: none"> • Pre-treatment facilities for crop products • - Functions of crop pre-treatment plants • 	2	6	8
		Topic. Packaging of crop products <ul style="list-style-type: none"> • Packaging equipment for crop products • Functions of crop packing plants 	2	6	8
	1.2. Prepare equipment for the initial processing and packaging of crop products according to instructions.	Topic. Getting crop pre-treatment equipment ready for operation <ul style="list-style-type: none"> • Visual inspection of crop pre-treatment equipment • Checking the operation of the crop pre-treatment equipment according to the instructions • Health and safety of workers during the preparation of crop pre-treatment equipment • - operations 	2	5	7
		Topic. Getting crop packing equipment ready for operation <ul style="list-style-type: none"> • Visual inspection of crop packing equipment 	2	4	6

		<ul style="list-style-type: none"> • Checking the operation of the crop packing equipment according to the instructions • Health and safety of workers during the preparation of the crop-packing equipment 			
	1.3. Cleaning the equipment, tanks and other inventory in use	<p>Topic. Plant cleaning</p> <ul style="list-style-type: none"> • Cleaning instructions and descriptions for installations • Means of cleaning installations • - Health and safety of workers during plant cleaning operations 	2	6	8
		<p>Topic. Cleaning of tanks and other inventory</p> <ul style="list-style-type: none"> • Instructions and descriptions for cleaning containers and other equipment • Cleaning agents for tanks and other inventories • Cleaning waste, segregation and disposal • - Health and safety of workers during cleaning of tanks and other inventories 	2	4	6
2. Carrying out the initial preparation of crop production for marketing	2.1. Describe the types of crop production and qualitative indicators.	<p>Subject Crop production</p> <ul style="list-style-type: none"> • Cereals, seeds • Root and tuber crops • Fruits and berries • - Vegetables 	3	6	9



		Topic. Qualitative indicators of crop production <ul style="list-style-type: none"> • Qualitative indicators for cereals and seeds • Qualitative indicators for root and tuber crops • Qualitative indicators for fruit and berries • - Quality indicators for vegetables 	2	6	8
	2.2. Perform simple preparation and primary processing of crop raw materials.	Topic. Preparation of raw materials for crop production <ul style="list-style-type: none"> • Removal of inedible parts • - Grading and calibration of crop production 	2	4	6
		Topic. Primary processing of crop raw materials <ul style="list-style-type: none"> • Cleaning and washing of crop production • Cutting and shredding of raw material 	3	4	7



	2.3. Clean up the workplace and waste.	Topic. Cleaning up the workplace <ul style="list-style-type: none"> • Keeping the workplace tidy and clean • - Tidying up work tools 	2	6	8
		Topic. Waste management <ul style="list-style-type: none"> • Sorting the waste produced • Waste recovery methods • Waste management rules • - Management of the waste produced 	2	6	8
3. Packaging crop production.	3.1. Describe the packaging materials, labelling and packaging tools used to package crop production.	Topic. Packaging materials for crop production <ul style="list-style-type: none"> • Types and functions of packaging • - Materials used in the production of packaging 	2	6	8
			3	5	8

	3.2. Perform simple packaging tasks for crop production.	Topic. Preparing the packaging of crop production <ul style="list-style-type: none"> • Specific health safety requirements for materials and articles intended to come into contact with food • - Folding of packages, preparation for packaging of crop production 	3	6	9
		Topic. Packaging of crop production <ul style="list-style-type: none"> • Vacuuming of crop production • Hand packing of crop production • - Horizontal flow wrapping of crop production 	2	4	6
	3.3. Labelling crop production.	Topic. Preparing for the labelling of crop production <ul style="list-style-type: none"> • General labelling information • - Labelling information for specific crop production 	2	4	6
		Topic. Labelling of crop production <ul style="list-style-type: none"> • Manual labelling • - Semi-automatic labelling 	3	6	9
Criteria for assessing learning outcomes	<p>Outlines the functions of crop pre-treatment and packaging plants. Equipment for the pre-treatment and packaging of crop products is prepared according to the instructions. The equipment, containers and other equipment used are properly cleaned. Types of crop production, quality indicators are described in general terms. Simple preparation and primary processing of crop raw materials. Packaging materials, labelling, packaging tools used for packaging crop production are described. Simple packaging operations for produce. Proper labelling of crop products. Cleaning of tools on completion of work. Tools, materials and tools are put in their storage place, the work area and waste are</p>				



	<p>cleaned up.</p> <p>Wearing appropriate work clothes and footwear and personal protective equipment. The work was carried out in compliance with the occupational health and safety rules, safe working practices, ergonomics, occupational hygiene, fire safety and environmental protection requirements. The activity was carried out in accordance with the task and instructions given by a more highly qualified worker</p>
Requirements for methodological and material resources for teaching	<p>Teaching (training) materials:</p> <ul style="list-style-type: none">- Textbooks and other teaching materials- Occupational safety and health requirements- Documents governing the requirements for the primary preparation and packaging of crop products: Good Hygiene Practice (GHP) rules, Mandatory quality requirements for cereals, flour and groats <p>Training tools:</p> <ul style="list-style-type: none">- Technical tools to illustrate, visualise and present the teaching material- Instructions for packaging, labelling and storage of crop products- Personal protective equipment for workers <p>Examples of packaging for crop production</p>
Requirements for the theoretical and practical training site	<p>A classroom or other room equipped with technical means (computer, internet access, multimedia projector or interactive screen) for presenting teaching/learning material.</p> <p>A classroom (room) for practical training, equipped with facilities for the initial preparation and packaging of crop products; packaging equipment, packaging materials, labelling, personal protective equipment, first aid equipment, fire-fighting equipment.</p>



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<p>Qualification and competence requirements for teachers/lecturers)</p>	<p>The module can be taught by a teacher who has:</p> <ol style="list-style-type: none">1) the education and qualification set out in the Law on Education of the Republic of Lithuania and in the Description of Requirements for the Qualification of Teachers, approved by the Order of the Minister of Education and Science of the Republic of Lithuania No V-774 of 29 August 2014 on the approval of the Description of Requirements for the Qualification of Teachers;2. a degree in agriculture or agronomy or equivalent, or a secondary education qualification and a qualification as an employee of an agricultural production business or equivalent, at least 3 years of professional experience in agricultural work and a certificate of completion of a course in pedagogical and psychological knowledge.
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