Integrated Farming Practitioner

QP Code: AGR/Q1211

Version: 1.0

NSQF Level: 4

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AGR/Q1211: Integrated Farming Practitioner

Brief Job Description

The individual is responsible for optimising farming practices through the development of a sustainable integrated approach. The individual maximises income, family nutrition and ecosystem services by using appropriate management tools in a mix of two or more farming enterprises including crop production, livestock rearing, aquaculture and allied agriculture activities.

Personal Attributes

The individual should have problem-solving and coordination skills. The person should have basic verbal and written communication skills.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. AGR/N1249: Identify compatible farm enterprises for integrated farming system

2. AGR/N1250: Undertake integration of different enterprises to ensure resource use efficiency in an Integrated Farming System

3. AGR/N1251: Implement biosecurity measures

4. AGR/N1252: Manage an integrated farm production

5. AGR/N1253: Harvest and market crops/produce in an Integrated Farming system

6. AGR/N1254: Ensure traceability and sustainability in an integrated farming system

7. DGT/VSQ/N0102: Employability Skills (60 Hours)

Qualification Pack (QP) Parameters

Sector	Agriculture
Sub-Sector	Agriculture Crop Production
Occupation	Farm Management
Country	India
NSQF Level	4

Credits	13
Aligned to NCO/ISCO/ISIC Code	NCO-2015/6130
Minimum Educational Qualification & Experience	12th grade Pass (or equivalent) OR Previous relevant Qualification of NSQF Level (3.5) with 1.5 Years of experience Agriculture and allied sectors OR Previous relevant Qualification of NSQF Level (3) with 3 Years of experience Agriculture and allied sectors
Minimum Level of Education for Training in School	NA
Pre-Requisite License or Training	NA
Minimum Job Entry Age	NA Years
Last Reviewed On	30/04/2024
Next Review Date	30/04/2027
NSQC Approval Date	30/04/2024
Version	1.0
Reference code on NQR	QG-04-AG-02426-2024-V1-ASCI
NQR Version	1.0

AGR/N1249: Identify compatible farm enterprises for integrated farming system

Description

This OS unit is about identifying different interdependent and interacting farm enterprises as per the local agro-climatic conditions for the efficient use of land, labour and other farm resources in an Integrated Farming System (IFS).

Scope

The scope covers the following :

- Assess the IFS system requirement
- Assess various IFS systems applicable to the local agro-climatic conditions

Elements and Performance Criteria

Assess the IFS system requirement

To be competent, the user/individual on the job must be able to:

PC1. determine the implementation requirement of IFS

PC2. Examine the principles of IFS that are aligned with sustainable agriculture practices

PC3. Determine various enterprises that can be a part of a sustainable IFS

Assess various IFS systems applicable to the local agro-climatic conditions

To be competent, the user/individual on the job must be able to:

PC4. assess the agro-climatic conditions of the region to determine the enterprises that can be integrated into an IFS

PC5. Shortlist the appropriate enterprises for IFS based on the local agro-climatic conditions

PC6. determine the nature of enterprises considering their interactions and synergies for integration into an IFS

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. Need for IFS

KU2. Difference between mixed farming and integrated farming

KU3. Principles of Integration Farming system

KU4. integrated plant and animal systems

KU5. IFS practices

KU6. principles of IFS

KU7. Approach of IFS

KU8. Goal of IFS

KU9. Factors determining implementation of Integrated Farming System

KU10. Factor determining Nature and Size of Enterprises in Integrated Farming System

KU11. Advantages of Integrated Farming System

KU12. Components of integrated farming system

KU13. Types of Integrated Farming Systems based on different enterprises

KU14. Types of Integrated Farming Systems based on Agro Eco-System

KU15. Different Models of Integrated Farming System

KU16. different interdependent and interacting farm enterprises for the efficient use of land, labour and other farm resources

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. make work-related notes

GS2. read the relevant literature to get the latest updates and information about new technologies

GS3. communicate professionally with clients and co-workers as per the business code of conduct

GS4. listen attentively to understand the information/ instructions being given by the speaker

GS5. plan and schedule tasks to ensure timely completion

GS6. identify possible disruptions to work and take preventive measures

GS7. apply domain knowledge and experience to suggest appropriate solutions to customers

GS8. take quick decisions in case of any emergencies/ accidents

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Assess the IFS system requirement	10	5	-	5
PC1. determine the implementation requirement of IFS	-	-	-	-
PC2. Examine the principles of IFS that are aligned with sustainable agriculture practices	-	-	-	-
PC3. Determine various enterprises that can be a part of a sustainable IFS	-	-	-	-
Assess various IFS systems applicable to the local agro-climatic conditions	10	10	-	10
PC4. assess the agro-climatic conditions of the region to determine the enterprises that can be integrated into an IFS	-	-	-	-
PC5. Shortlist the appropriate enterprises for IFS based on the local agro-climatic conditions	-	-	-	-
PC6. determine the nature of enterprises considering their interactions and synergies for integration into an IFS	-	-	-	-
NOS Total	20	15	-	15

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N1249
NOS Name	Identify compatible farm enterprises for integrated farming system
Sector	Agriculture
Sub-Sector	Agriculture Crop Production
Occupation	Farm Management
NSQF Level	4
Credits	1
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance	30/04/2024

AGR/N1250: Undertake integration of different enterprises to ensure resource use efficiency in an Integrated Farming System

Description

This OS unit is about ensuring stability in production, efficiency in resource use and conservation of the environment through integration of diversified enterprises.

Scope

The scope covers the following :

- Plan for distribution of resources across various enterprises
- Integrate different enterprises as per their interaction and synergies

Elements and Performance Criteria

Plan for distribution of resources across various enterprises

To be competent, the user/individual on the job must be able to:

PC1. Assess the farming systems being adopted in the farm to analyse the need for integrating enterprises

PC2. Identify possible integration opportunities and shortlist suitable enterprises

PC3. Estimate the type and quantity of resources required for the shortlisted enterprises

PC4. identify resources which are easily available on farms/ nearby areas

PC5. focus on utilizing the resources which are underutilized/not utilized

PC6. strive to utilize the resources which are overutilized/not utilized in a sustainable fashion

Allocate resources for the selected enterprises

To be competent, the user/individual on the job must be able to:

PC7. select different enterprises in a way that maximizes the efficient use of resources and minimizes negative environmental impacts

PC8. determine the size of enterprises in IFS considering various factors including the available resources

PC9. allocate resources required for the identified enterprises as per their nature and size

PC10. Determine combinations of plant and animal species that achieve desired IFS outcomes

PC11. Identify and compile a list of plants and animals/birds/fish to suit IFS design parameters

PC12. Assess availability of the identified chosen varieties and breeds

PC13. Obtain plants, animals, fish, etc for IFS

Integrate different enterprises as per their interaction and synergies

To be competent, the user/individual on the job must be able to:

PC14. minimize the waste from various subsystems of the farm by expanding the symbiotic or synergistic systems between livestock, aquaculture, agriculture, and agroindustry, such that the waste of one process becomes the input for other operations

PC15. enhance ecological diversity by selecting the appropriate cropping methodology, cropping, intercropping, to reduce competition including mixed crop rotation, and for water, nutrition, and space

PC16. use the entire available area effectively and ensure interactions between biotic and abiotic components

PC17. Diversify the rural farm to improve the farm household's dietary diversity and achieve sustainable livelihoods and minimize risks

PC18. Ensure that the integrated system enhances the benefits of all users of the common property resource

PC19. Consider various economic factors to arrive at the most judicious and profitable combination of enterprises

PC20. Work out the economics of the proposed integrated farming system

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1.   IFS design information, including site plan and components of integrated plant and animal systems

KU2.   different interdependent and interacting farm enterprises for the efficient use of land, labour and other farm resources

KU3.   plant and animal/bird/fish species and their interactions and interrelationships

KU4.   indigenous animals and plants

KU5.   what grows or thrives locally – plants, animals, birds, fish

KU6.   food, fodder and medicinal plant species suitable for chosen animals/birds/fish

KU7.   role of animals in improving soil, recycling nutrients, managing 'weedy' plants and controlling pests and diseases

KU8.   recycling of materials and waste

KU9.   workplace health and safety, including typical hazards and risks and their controls

KU10. Economic considerations to be taken while selecting the enterprises- farm budget, monthly cash flow, opportunity costs, risks and market, equity/income distribution

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1.   make work-related notes

GS2. read the relevant literature to get the latest updates and information about new technologies

GS3. communicate professionally with clients and co-workers as per the business code of conduct

GS4.   listen attentively to understand the information/ instructions being given by the speaker

GS5. plan and schedule tasks to ensure timely completion

GS6.   identify possible disruptions to work and take preventive measures

GS7.   apply domain knowledge and experience to suggest appropriate solutions to customers

GS8.   take quick decisions in case of any emergencies/ accidents

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Plan for distribution of resources across various enterprises	**5**	**5**	-	-
PC1. Assess the farming systems being adopted in the farm to analyse the need for integrating enterprises	-	-	-	-
PC2. Identify possible integration opportunities and shortlist suitable enterprises	-	-	-	-
PC3. Estimate the type and quantity of resources required for the shortlisted enterprises	-	-	-	-
PC4. identify resources which are easily available on farms/ nearby areas	-	-	-	-
PC5. focus on utilizing the resources which are underutilized/not utilized	-	-	-	-
PC6. strive to utilize the resources which are overutilized/not utilized in a sustainable fashion	-	-	-	-
Allocate resources for the selected enterprises	**5**	**5**	-	**5**
PC7. select different enterprises in a way that maximizes the efficient use of resources and minimizes negative environmental impacts	-	-	-	-
PC8. determine the size of enterprises in IFS considering various factors including the available resources	-	-	-	-
PC9. allocate resources required for the identified enterprises as per their nature and size	-	-	-	-
PC10. Determine combinations of plant and animal species that achieve desired IFS outcomes	-	-	-	-
PC11. Identify and compile a list of plants and animals/birds/fish to suit IFS design parameters	-	-	-	-
PC12. Assess availability of the identified chosen varieties and breeds	-	-	-	-
PC13. Obtain plants, animals, fish, etc for IFS	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Integrate different enterprises as per their interaction and synergies	10	10	-	5
PC14. minimize the waste from various subsystems of the farm by expanding the symbiotic or synergistic systems between livestock, aquaculture, agriculture, and agroindustry, such that the waste of one process becomes the input for other operations	-	-	-	-
PC15. enhance ecological diversity by selecting the appropriate cropping methodology, cropping, intercropping, to reduce competition including mixed crop rotation, and for water, nutrition, and space	-	-	-	-
PC16. use the entire available area effectively and ensure interactions between biotic and abiotic components	-	-	-	-
PC17. Diversify the rural farm to improve the farm household's dietary diversity and achieve sustainable livelihoods and minimize risks	-	-	-	-
PC18. Ensure that the integrated system enhances the benefits of all users of the common property resource	-	-	-	-
PC19. Consider various economic factors to arrive at the most judicious and profitable combination of enterprises	-	-	-	-
PC20. Work out the economics of the proposed integrated farming system	-	-	-	-
NOS Total	20	20	-	10

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N1250
NOS Name	Undertake integration of different enterprises to ensure resource useefficiency in an Integrated Farming System
Sector	Agriculture
Sub-Sector	Agriculture Crop Production
Occupation	Farm Management
NSQF Level	4
Credits	2
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance	30/04/2024

AGR/N1251: Implement biosecurity measures

Description

This OS unit is about applying biosecurity measures in an integrated farm system

Scope

The scope covers the following :

- Identify biosecurity threats and determine control measures for site
- Apply biosecurity control measures to site activities
- Monitor biosecurity procedures

Elements and Performance Criteria

Identify biosecurity threats and determine control measures for site

To be competent, the user/individual on the job must be able to:

PC1. Access and interpret site biosecurity plan and information

PC2. Identify biosecurity hazards and threats for the site

PC3. Identify control measures to minimise the risk of identified biosecurity threats

Apply biosecurity control measures to site activities

To be competent, the user/individual on the job must be able to:

PC4. Apply control measures identified in site biosecurity plan for all activities according to workplace procedures

PC5. Incorporate the site control measures into work routines

Monitor biosecurity procedures

To be competent, the user/individual on the job must be able to:

PC6. Monitor effectiveness of control measures

PC7. Monitor work duties of site personnel to ensure biosecurity control measures are applied appropriately

PC8. Report issues and concerns for biosecurity to the designated authority

PC9. Maintain currency in biosecurity measures applicable to workplace

PC10. Record inputs and outputs for traceability of activity according to workplace procedures and legislative requirements

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. principles and practices of biosecurity on different sites

KU2. sources of biosecurity information

KU3. biosecurity plans and their function

KU4. biosecurity threats

KU5. risk assessment principles, standards and regulations for biosecurity

KU6. control measures to minimize the threats entering or spreading into, or from, the site

KU7. record keeping for traceability, both trace back and trace forward, of inputs and outputs

KU8. processes for monitoring effectiveness of control measures

KU9. process for reporting biosecurity concerns and issues.

KU10. environmental protection strategies

KU11. pest and weed management and control strategies

KU12. work health and safety legislative requirements

KU13. environmental legislation and codes of practice, relating to crop/livestock/poultry/fish,etc production.

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. Apply a range of learning strategies in structured and familiar contexts to maintain currency in biosecurity

GS2. Analyse and consolidate information and data from a range of sources which apply to biosecurity measures

GS3. Accurately complete workplace and regulatory biosecurity records using clear and industry relevant terminology

GS4. Effectively participate in verbal exchanges including active listening and questioning and reading of verbal and non-verbal signals to convey and clarify information

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Identify biosecurity threats and determine control measures for site	5	5	-	5
PC1. Access and interpret site biosecurity plan and information	-	-	-	-
PC2. Identify biosecurity hazards and threats for the site	-	-	-	-
PC3. Identify control measures to minimise the risk of identified biosecurity threats	-	-	-	-
Apply biosecurity control measures to site activities	5	5	-	5
PC4. Apply control measures identified in site biosecurity plan for all activities according to workplace procedures	-	-	-	-
PC5. Incorporate the site control measures into work routines	-	-	-	-
Monitor biosecurity procedures	5	10	-	5
PC6. Monitor effectiveness of control measures	-	-	-	-
PC7. Monitor work duties of site personnel to ensure biosecurity control measures are applied appropriately	-	-	-	-
PC8. Report issues and concerns for biosecurity to the designated authority	-	-	-	-
PC9. Maintain currency in biosecurity measures applicable to workplace	-	-	-	-
PC10. Record inputs and outputs for traceability of activity according to workplace procedures and legislative requirements	-	-	-	-
NOS Total	**15**	**20**	**-**	**15**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N1251
NOS Name	Implement biosecurity measures
Sector	Agriculture
Sub-Sector	Agriculture Crop Production
Occupation	Farm Management
NSQF Level	4
Credits	1
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance	30/04/2024

AGR/N1252: Manage an integrated farm production

Description

This OS unit is about managing an integrated farm and the produce from various enterprises in an integrated system.

Scope

The scope covers the following :

- ● Determine requirements for an integrated farm establishment program
- ● Implement crop/livestock/poultry/fish, etc maintenance
- ● Monitor crop/livestock/poultry/fish, etc through to harvest/marketing

Elements and Performance Criteria

Determine requirements for an integrated farm establishment program

To be competent, the user/individual on the job must be able to:

PC1. Develop a crop/produce establishment program according to farm production plan post selecting plant/livestock/poultry/fish, etc varieties best suited to the local agro-climatic conditions and marketing goals

PC2. Determine available resources- soil moisture and water requirement for different integrated systems.

PC3. Assess available water reserves and develop a water management plan for various components of farm production

PC4. Determine crop/livestock/poultry/fish, etc nutrient requirements to achieve required yield according to environmental procedures

PC5. Determine appropriate sustainable practices that can be integrated for efficient farm production and continued improvement through introduction of sustainable practices, viz. intercropping, crop rotation, cover crops, agroforestry, fish farming, beekeeping, etc

PC6. Assess technology to ensure most efficient performance of operations

PC7. Identify and maintain budgetary requirements

Implement crop/livestock/poultry/fish, etc maintenance

To be competent, the user/individual on the job must be able to:

PC8. Identify health and safety hazards, assess risk and develop and implement controls procedures

PC9. Implement strategies to reduce or eradicate pest/weed infestation

PC10. Apply nutrients/diets at rates specified in nutrient program

PC11. Monitor water requirement and implement water management plan to maintain crop/livestock/poultry/fish, etc

PC12. Determine and implement processes to minimise waste and soil degradation according to environmental management policies

Monitor crop/livestock/poultry/fish, etc through to harvest/marketing

To be competent, the user/individual on the job must be able to:

PC13. Determine trends in weed, pest and disease incidence, on crop and other components and implement control measures

PC14. Monitor soil structure and erosion and implement changes to production practices according to production plan

PC15. Check and maintain water and drainage systems

PC16. Monitor crop/component maturity and undertake harvesting to meet marketing and production targets

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. agricultural crops/livestock/poultry/fish, etc and their cultural requirements

KU2. land and soil conditions and assessment, including:
   • soil nutrient and fertility
   • interpretation of soil conditions and analysis
   • crop nutrient requirements
   • impact of soil biology on soil condition and nutrient availability
   • effects of soil characteristics on nutrient availability
   • soil moisture and impact on crop development

KU3. managing water reserves for irrigation, aquaculture and watering livestock/poultry

KU4. budgeting and financial analysis techniques, including:
   • basic financial analysis
   • estimating costs
   • importance of financial records

KU5. environmental protection strategies

KU6. pest and weed management and control strategies

KU7. work health and safety legislative requirements

KU8. environmental legislation and codes of practice, relating to crop/livestock/poultry/fish,etc production.

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. make work-related notes

GS2. read the relevant literature to get the latest updates and information about new technologies

GS3. communicate professionally with clients and co-workers as per the business code of conduct

GS4. listen attentively to understand the information/ instructions being given by the speaker

GS5. plan and schedule tasks to ensure timely completion

GS6. identify possible disruptions to work and take preventive measures

GS7. apply domain knowledge and experience to suggest appropriate solutions to customers

GS8. take quick decisions in case of any emergencies/ accidents

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Determine requirements for an integrated farm establishment program	**5**	**5**	**-**	**5**
PC1. Develop a crop/produce establishment program according to farm production plan post selecting plant/livestock/poultry/fish, etc varieties best suited to the local agro-climatic conditions and marketing goals	-	-	-	-
PC2. Determine available resources- soil moisture and water requirement for different integrated systems.	-	-	-	-
PC3. Assess available water reserves and develop a water management plan for various components of farm production	-	-	-	-
PC4. Determine crop/livestock/poultry/fish, etc nutrient requirements to achieve required yield according to environmental procedures	-	-	-	-
PC5. Determine appropriate sustainable practices that can be integrated for efficient farm production and continued improvement through introduction of sustainable practices, viz. intercropping, crop rotation, cover crops, agroforestry, fish farming, beekeeping, etc	-	-	-	-
PC6. Assess technology to ensure most efficient performance of operations	-	-	-	-
PC7. Identify and maintain budgetary requirements	-	-	-	-
Implement crop/livestock/poultry/fish, etc maintenance	**5**	**10**	**-**	**5**
PC8. Identify health and safety hazards, assess risk and develop and implement controls procedures	-	-	-	-
PC9. Implement strategies to reduce or eradicate pest/weed infestation	-	-	-	-
PC10. Apply nutrients/diets at rates specified in nutrient program	-	-	-	-
PC11. Monitor water requirement and implement water management plan to maintain crop/livestock/poultry/fish, etc	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. Determine and implement processes to minimise waste and soil degradation according to environmental management policies	-	-	-	-
Monitor crop/livestock/poultry/fish, etc through to harvest/marketing	5	5	-	5
PC13. Determine trends in weed, pest and disease incidence, on crop and other components and implement control measures	-	-	-	-
PC14. Monitor soil structure and erosion and implement changes to production practices according to production plan	-	-	-	-
PC15. Check and maintain water and drainage systems	-	-	-	-
PC16. Monitor crop/component maturity and undertake harvesting to meet marketing and production targets	-	-	-	-
NOS Total	**15**	**20**	**-**	**15**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N1252
NOS Name	Manage an integrated farm production
Sector	Agriculture
Sub-Sector	Agriculture Crop Production
Occupation	Farm Management
NSQF Level	4
Credits	3
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance	30/04/2024

AGR/N1253: Harvest and market crops/produce in an Integrated Farming system

Description

This OS unit is about harvesting crop and produce from different farm enterprises, viz. milk, eggs, fish, honey, fodder, etc in an integrated farming system.

Scope

The scope covers the following :

- Assess crops/produce for harvest
- Prepare equipment for harvesting
- Harvest and process the crop/produce
- Sell the produce
- Develop and maintain relationship with customers
- Organise transport of produce to the buyers
- Maintain records

Elements and Performance Criteria

Assess crops/produce for harvest

To be competent, the user/individual on the job must be able to:

PC1. Identify crops/produce to be harvested according to the harvesting plan

PC2. Determine crop/produce maturity

PC3. Schedule crop/produce harvesting as per the maturity and the market needs

PC4. ensure conditions are conducive for harvesting operations

Prepare equipment for harvesting

To be competent, the user/individual on the job must be able to:

PC5. Select tools, equipment and machinery for harvesting operations

PC6. Carry out pre-operational and safety checks on tools, equipment and machinery according to manufacturer specifications

PC7. Select, use and maintain personal protective equipment (PPE)

Harvest and process the crop/produce

To be competent, the user/individual on the job must be able to:

PC8. Harvest crop/produce safely according to workplace safety procedures

PC9. Harvest and handle crop/produce to prevent damage and maintain quality

PC10. Sort and grade crop/produce into containers according to harvesting plan

PC11. Clean and maintain harvesting tools, equipment and machinery

PC12. Employ safe manual handling techniques throughout harvesting operations

PC13. Move and stack containers to minimise damage to crop/produce

PC14. Maintain temperature of crop/produce according to harvesting plan

PC15. Transport crop/produce from field to processing or storage area

PC16. Maintain containers in good working order

Sell the produce

To be competent, the user/individual on the job must be able to:

PC17. Identify various types of markets including e-marketing platforms

PC18. Identify and document potential customer base

PC19. Evaluate and document selling options

PC20. Sell the produce to the buyers at a profitable price

PC21. Identify and comply with market requirements

Develop and maintain relationship with customers

To be competent, the user/individual on the job must be able to:

PC22. Investigate characteristics of customers

PC23. Develop connections with potential customers

Organise transport of produce to the buyers

To be competent, the user/individual on the job must be able to:

PC24. Identify transport requirements and engage carrier for produce distribution

PC25. Schedule transport and delivery of product with the buyer

PC26. Identify and comply with buyer's delivery requirements

Maintain records

To be competent, the user/individual on the job must be able to:

PC27. evaluate actual yield against production targets and determine possible reasons for variance

PC28. complete the pre-sale and post-sale documentation

PC29. record transactions according to traceability and workplace procedures

PC30. Document customer feedback and identify and record potential improvements

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. IFS principles related to harvesting

KU2. principles of sustainable agricultural, aquaculture and animal husbandry practices

KU3. components commonly used in IFS

KU4. indicators of crop/produce maturity for harvesting

KU5. impact of environmental conditions on crop/produce harvesting, including weather impact on crop/produce and safe access to harvest site

KU6. harvesting techniques

KU7. equipment and machinery used in harvesting

KU8. sorting and grading methods

KU9. storage, transportation including containers and their maintenance

KU10. methods of waste disposal with minimal impact on the environment

KU11. safe work practices when harvesting, grading and storing crops/produce

KU12. applicable legislation, regulations, standards, codes of practice and established safe practices relevant to the full range of processes in selling produce

KU13. organisation policies and procedures related to supply chain management, purchasing, and contracting

KU14. ways to build trust and collaboration

KU15. ethical behaviour

KU16. established communication channels and protocols

KU17. procedures for recording and reporting workplace information and completing relevant documentation

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. make work-related notes

GS2. read the relevant literature to get the latest updates and information about new technologies

GS3. communicate professionally with clients and co-workers as per the business code of conduct

GS4. listen attentively to understand the information/ instructions being given by the speaker

GS5. plan and schedule tasks to ensure timely completion

GS6. identify possible disruptions to work and take preventive measures

GS7. apply domain knowledge and experience to suggest appropriate solutions to customers

GS8. take quick decisions in case of any emergencies/ accidents

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Assess crops/produce for harvest	**2**	**2**	**-**	**2**
PC1. Identify crops/produce to be harvested according to the harvesting plan	-	-	-	-
PC2. Determine crop/produce maturity	-	-	-	-
PC3. Schedule crop/produce harvesting as per the maturity and the market needs	-	-	-	-
PC4. ensure conditions are conducive for harvesting operations	-	-	-	-
Prepare equipment for harvesting	**2**	**2**	**-**	**1**
PC5. Select tools, equipment and machinery for harvesting operations	-	-	-	-
PC6. Carry out pre-operational and safety checks on tools, equipment and machinery according to manufacturer specifications	-	-	-	-
PC7. Select, use and maintain personal protective equipment (PPE)	-	-	-	-
Harvest and process the crop/produce	**4**	**8**	**-**	**4**
PC8. Harvest crop/produce safely according to workplace safety procedures	-	-	-	-
PC9. Harvest and handle crop/produce to prevent damage and maintain quality	-	-	-	-
PC10. Sort and grade crop/produce into containers according to harvesting plan	-	-	-	-
PC11. Clean and maintain harvesting tools, equipment and machinery	-	-	-	-
PC12. Employ safe manual handling techniques throughout harvesting operations	-	-	-	-
PC13. Move and stack containers to minimise damage to crop/produce	-	-	-	-
PC14. Maintain temperature of crop/produce according to harvesting plan	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC15. Transport crop/produce from field to processing or storage area	-	-	-	-
PC16. Maintain containers in good working order	-	-	-	-
Sell the produce	**2**	**2**	-	**2**
PC17. Identify various types of markets including e-marketing platforms	-	-	-	-
PC18. Identify and document potential customer base	-	-	-	-
PC19. Evaluate and document selling options	-	-	-	-
PC20. Sell the produce to the buyers at a profitable price	-	-	-	-
PC21. Identify and comply with market requirements	-	-	-	-
Develop and maintain relationship with customers	**1**	**2**	-	**2**
PC22. Investigate characteristics of customers	-	-	-	-
PC23. Develop connections with potential customers	-	-	-	-
Organise transport of produce to the buyers	**2**	**2**	-	**2**
PC24. Identify transport requirements and engage carrier for produce distribution	-	-	-	-
PC25. Schedule transport and delivery of product with the buyer	-	-	-	-
PC26. Identify and comply with buyer's delivery requirements	-	-	-	-
Maintain records	**2**	**2**	-	**2**
PC27. evaluate actual yield against production targets and determine possible reasons for variance	-	-	-	-
PC28. complete the pre-sale and post-sale documentation	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC29. record transactions according to traceability and workplace procedures	-	-	-	-
PC30. Document customer feedback and identify and record potential improvements	-	-	-	-
NOS Total	**15**	**20**	**-**	**15**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N1253
NOS Name	Harvest and market crops/produce in an Integrated Farming system
Sector	Agriculture
Sub-Sector	Agriculture Crop Production
Occupation	Farm Management
NSQF Level	4
Credits	2
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance	30/04/2024

AGR/N1254: Ensure traceability and sustainability in an integrated farming system

Description

This OS unit is about maintaining production records for ensuring traceability and improving sustainability of the Integrated Farming System through introducing the required changes in the system.

Scope

The scope covers the following :

- Determine systems for collection and storage of production records
- Collect and maintain production records to ensure traceability
- Examine operations for readily implementable changes to improve sustainability
- Implement change
- Review change

Elements and Performance Criteria

Determine systems for collection and storage of production records

To be competent, the user/individual on the job must be able to:

PC1. Determine physical records and inventories required for proper management of the farm

PC2. Identify methods for collecting and storing information that allow effective access and analysis

PC3. Identify the most appropriate information collection and storage methods according to farm requirements

PC4. Identify the most appropriate system for record keeping

Collect and maintain production records to ensure traceability

To be competent, the user/individual on the job must be able to:

PC5. Collect records as per the farm requirement

PC6. Collate and sort records for analysis and decision-making purposes

PC7. Save records in a range of formats for future retrieval

Examine operations for readily implementable changes to improve sustainability

To be competent, the user/individual on the job must be able to:

PC8. Review current practices and identify potential areas across the value chain for improvement

PC9. Examine processes and/or procedures related to work area or value chain to identify sustainability issues

PC10. Short-list sustainability issues which may be easily eliminated or improved

PC11. Estimate positive and negative sustainability impacts arising from readily implementable changes to address short-listed sustainability issues

PC12. Estimate positive and negative business impacts of readily implementable changes to address short-listed sustainability issues

PC13. Rank short-listed sustainability issues by estimated sustainability and business benefits and costs

Implement change

To be competent, the user/individual on the job must be able to:

PC14. Seek feedback from stakeholders to improve the management of the environment and resource efficiency

PC15. Develop implementation plan to deliver desired outcomes

PC16. Use appropriate techniques and tools to achieve efficiencies and sustainability targets

PC17. Negotiate required resources with stakeholders

PC18. Bring Innovations in introducing crops, livestock species, and other systems

PC19. Apply strategies to minimise wastage

PC20. Apply strategies to minimise environmental risks and impacts

PC21. discuss measures and indicators of success with the experts

PC22. Acquire and deploy resources required to achieve agreed outcome

PC23. Monitor implementation and make required adjustments

Review change for continuous improvement

To be competent, the user/individual on the job must be able to:

PC24. Measure immediate impact of change

PC25. Identify any non-compliances with planned improvements

PC26. analyse further actions to achieve desired outcomes, as needed

PC27. Record progress against resource efficiency and environmental targets

PC28. Discuss the newly introduced changes and related issues with the co-workers and other stakeholders for finding solutions

PC29. Stay informed about new biosecurity threats, technologies, and advancements in agricultural practices

PC30. Continuously seek and implement improvements in integration efficiency and sustainability

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. Importance of record-keeping

KU2. procedures applying to production records

KU3. Methods for collection and storage of records

KU4. recording processes to meet quality assurance requirements

KU5. technology used to record and analyse production information

KU6. latest trends and technologies in sustainable farming practices and biosecurity measures

KU7. economic, environmental and social sustainability issues within the industry

KU8. current and emerging approaches to improving sustainability within the industry

KU9. • sustainability issues relevant to the work area and/or its value chain, including the following:
   • • extended product lifecycle and retaining and/or managing residual resources
   • • safety and/or environmental impact of materials
   • • efficient use of materials, resources and/or energy
   • • reduction of pollution and/or greenhouse gas emissions
   • • waste management

KU10. current and emerging industry practices relevant to sustainability issues, as listed above

KU11. interactions between sustainability issues and operational processes

KU12. measures and indicators relevant to sustainability issues in the work area and/or its value chain

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. make work-related notes

GS2. read the relevant literature to get the latest updates and information about new technologies

GS3. communicate professionally with clients and co-workers as per the business code of conduct

GS4. listen attentively to understand the information/ instructions being given by the speaker

GS5. plan and schedule tasks to ensure timely completion

GS6. identify possible disruptions to work and take preventive measures

GS7. apply domain knowledge and experience to suggest appropriate solutions to customers

GS8. take quick decisions in case of any emergencies/ accidents

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Determine systems for collection and storage of production records	4	2	-	4
PC1. Determine physical records and inventories required for proper management of the farm	-	-	-	-
PC2. Identify methods for collecting and storing information that allow effective access and analysis	-	-	-	-
PC3. Identify the most appropriate information collection and storage methods according to farm requirements	-	-	-	-
PC4. Identify the most appropriate system for record keeping	-	-	-	-
Collect and maintain production records to ensure traceability	2	2	-	2
PC5. Collect records as per the farm requirement	-	-	-	-
PC6. Collate and sort records for analysis and decision-making purposes	-	-	-	-
PC7. Save records in a range of formats for future retrieval	-	-	-	-
Examine operations for readily implementable changes to improve sustainability	5	4	-	3
PC8. Review current practices and identify potential areas across the value chain for improvement	-	-	-	-
PC9. Examine processes and/or procedures related to work area or value chain to identify sustainability issues	-	-	-	-
PC10. Short-list sustainability issues which may be easily eliminated or improved	-	-	-	-
PC11. Estimate positive and negative sustainability impacts arising from readily implementable changes to address short-listed sustainability issues	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. Estimate positive and negative business impacts of readily implementable changes to address short-listed sustainability issues	-	-	-	-
PC13. Rank short-listed sustainability issues by estimated sustainability and business benefits and costs	-	-	-	-
Implement change	5	3	-	4
PC14. Seek feedback from stakeholders to improve the management of the environment and resource efficiency	-	-	-	-
PC15. Develop implementation plan to deliver desired outcomes	-	-	-	-
PC16. Use appropriate techniques and tools to achieve efficiencies and sustainability targets	-	-	-	-
PC17. Negotiate required resources with stakeholders	-	-	-	-
PC18. Bring Innovations in introducing crops, livestock species, and other systems	-	-	-	-
PC19. Apply strategies to minimise wastage	-	-	-	-
PC20. Apply strategies to minimise environmental risks and impacts	-	-	-	-
PC21. discuss measures and indicators of success with the experts	-	-	-	-
PC22. Acquire and deploy resources required to achieve agreed outcome	-	-	-	-
PC23. Monitor implementation and make required adjustments	-	-	-	-
Review change for continuous improvement	4	4	-	2
PC24. Measure immediate impact of change	-	-	-	-
PC25. Identify any non-compliances with planned improvements	-	-	-	-
PC26. analyse further actions to achieve desired outcomes, as needed	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC27. Record progress against resource efficiency and environmental targets	-	-	-	-
PC28. Discuss the newly introduced changes and related issues with the co-workers and other stakeholders for finding solutions	-	-	-	-
PC29. Stay informed about new biosecurity threats, technologies, and advancements in agricultural practices	-	-	-	-
PC30. Continuously seek and implement improvements in integration efficiency and sustainability	-	-	-	-
NOS Total	**20**	**15**	**-**	**15**

National Occupational Standards (NOS) Parameters

NOS Code	AGR/N1254
NOS Name	Ensure traceability and sustainability in an integrated farming system
Sector	Agriculture
Sub-Sector	Agriculture Crop Production
Occupation	Farm Management
NSQF Level	4
Credits	1
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance	30/04/2024

DGT/VSQ/N0102: Employability Skills (60 Hours)

Description

This unit is about employability skills, Constitutional values, becoming a professional in the 21st Century, digital, financial, and legal literacy, diversity and Inclusion, English and communication skills, customer service, entrepreneurship, and apprenticeship, getting ready for jobs and career development.

Scope

The scope covers the following :

- Introduction to Employability Skills
- Constitutional values - Citizenship
- Becoming a Professional in the 21st Century
- Basic English Skills
- Career Development & Goal Setting
- Communication Skills
- Diversity & Inclusion
- Financial and Legal Literacy
- Essential Digital Skills
- Entrepreneurship
- Customer Service
- Getting ready for Apprenticeship & Jobs

Elements and Performance Criteria

Introduction to Employability Skills

To be competent, the user/individual on the job must be able to:

PC1. identify employability skills required for jobs in various industries

PC2. identify and explore learning and employability portals

Constitutional values – Citizenship

To be competent, the user/individual on the job must be able to:

PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.

PC4. follow environmentally sustainable practices

Becoming a Professional in the 21st Century

To be competent, the user/individual on the job must be able to:

PC5. recognize the significance of 21st Century Skills for employment

PC6. practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life

Basic English Skills

To be competent, the user/individual on the job must be able to:

PC7. use basic English for everyday conversation in different contexts, in person and over the telephone

PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English

PC9. write short messages, notes, letters, e-mails etc. in English

Career Development & Goal Setting

To be competent, the user/individual on the job must be able to:

PC10. understand the difference between job and career

PC11. prepare a career development plan with short- and long-term goals, based on aptitude

Communication Skills

To be competent, the user/individual on the job must be able to:

PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings

PC13. work collaboratively with others in a team

Diversity & Inclusion

To be competent, the user/individual on the job must be able to:

PC14. communicate and behave appropriately with all genders and PwD

PC15. escalate any issues related to sexual harassment at workplace according to POSH Act

Financial and Legal Literacy

To be competent, the user/individual on the job must be able to:

PC16. select financial institutions, products and services as per requirement

PC17. carry out offline and online financial transactions, safely and securely

PC18. identify common components of salary and compute income, expenses, taxes, investments etc

PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation

Essential Digital Skills

To be competent, the user/individual on the job must be able to:

PC20. operate digital devices and carry out basic internet operations securely and safely

PC21. use e- mail and social media platforms and virtual collaboration tools to work effectively

PC22. use basic features of word processor, spreadsheets, and presentations

Entrepreneurship

To be competent, the user/individual on the job must be able to:

PC23. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research

PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion

PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity

Customer Service

To be competent, the user/individual on the job must be able to:

PC26. identify different types of customers

PC27. identify and respond to customer requests and needs in a professional manner.

PC28. follow appropriate hygiene and grooming standards

Getting ready for apprenticeship & Jobs

To be competent, the user/individual on the job must be able to:

PC29. create a professional Curriculum vitae (Résumé)

PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively

PC31. apply to identified job openings using offline /online methods as per requirement

PC32. answer questions politely, with clarity and confidence, during recruitment and selection

PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. need for employability skills and different learning and employability related portals

KU2. various constitutional and personal values

KU3. different environmentally sustainable practices and their importance

KU4. Twenty first (21st) century skills and their importance

KU5. how to use English language for effective verbal (face to face and telephonic) and written communication in formal and informal set up

KU6. importance of career development and setting long- and short-term goals

KU7. about effective communication

KU8. POSH Act

KU9. Gender sensitivity and inclusivity

KU10. different types of financial institutes, products, and services

KU11. how to compute income and expenditure

KU12. importance of maintaining safety and security in offline and online financial transactions

KU13. different legal rights and laws

KU14. different types of digital devices and the procedure to operate them safely and securely

KU15. how to create and operate an e- mail account and use applications such as word processors, spreadsheets etc.

KU16. how to identify business opportunities

KU17. types and needs of customers

KU18. how to apply for a job and prepare for an interview

KU19. apprenticeship scheme and the process of registering on apprenticeship portal

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. read and write different types of documents/instructions/correspondence

GS2. communicate effectively using appropriate language in formal and informal settings

GS3. behave politely and appropriately with all

GS4. how to work in a virtual mode

GS5. perform calculations efficiently

GS6. solve problems effectively

GS7. pay attention to details

GS8. manage time efficiently

GS9. maintain hygiene and sanitization to avoid infection

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Introduction to Employability Skills	**1**	**1**	**-**	**-**
PC1. identify employability skills required for jobs in various industries	-	-	-	-
PC2. identify and explore learning and employability portals	-	-	-	-
Constitutional values – Citizenship	**1**	**1**	**-**	**-**
PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-	-	-
PC4. follow environmentally sustainable practices	-	-	-	-
Becoming a Professional in the 21st Century	**2**	**4**	**-**	**-**
PC5. recognize the significance of 21st Century Skills for employment	-	-	-	-
PC6. practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	-	-	-	-
Basic English Skills	**2**	**3**	**-**	**-**
PC7. use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
PC9. write short messages, notes, letters, e-mails etc. in English	-	-	-	-
Career Development & Goal Setting	**1**	**2**	**-**	**-**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC10. understand the difference between job and career	-	-	-	-
PC11. prepare a career development plan with short- and long-term goals, based on aptitude	-	-	-	-
Communication Skills	2	2	-	-
PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings	-	-	-	-
PC13. work collaboratively with others in a team	-	-	-	-
Diversity & Inclusion	1	2	-	-
PC14. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC15. escalate any issues related to sexual harassment at workplace according to POSH Act	-	-	-	-
Financial and Legal Literacy	2	3	-	-
PC16. select financial institutions, products and services as per requirement	-	-	-	-
PC17. carry out offline and online financial transactions, safely and securely	-	-	-	-
PC18. identify common components of salary and compute income, expenses, taxes, investments etc	-	-	-	-
PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
Essential Digital Skills	3	4	-	-
PC20. operate digital devices and carry out basic internet operations securely and safely	-	-	-	-
PC21. use e- mail and social media platforms and virtual collaboration tools to work effectively	-	-	-	-
PC22. use basic features of word processor, spreadsheets, and presentations	-	-	-	-
Entrepreneurship	2	3	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC23. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
Customer Service	**1**	**2**	-	-
PC26. identify different types of customers	-	-	-	-
PC27. identify and respond to customer requests and needs in a professional manner.	-	-	-	-
PC28. follow appropriate hygiene and grooming standards	-	-	-	-
Getting ready for apprenticeship & Jobs	**2**	**3**	-	-
PC29. create a professional Curriculum vitae (Résumé)	-	-	-	-
PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
PC31. apply to identified job openings using offline /online methods as per requirement	-	-	-	-
PC32. answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-	-	-
NOS Total	**20**	**30**	-	-

National Occupational Standards (NOS) Parameters

NOS Code	DGT/VSQ/N0102
NOS Name	Employability Skills (60 Hours)
Sector	Cross Sectoral
Sub-Sector	Professional Skills
Occupation	Employability
NSQF Level	4
Credits	2
Version	1.0
Last Reviewed Date	31/03/2022
Next Review Date	31/03/2025
NSQC Clearance Date	31/03/2022

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down the proportion of marks for Theory and Skills Practical for each PC.

2. The assessment for the theory part will be based on the knowledge bank of questions created by the SSC.

3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/optional set of NOS.

4. Individual assessment agencies will create unique question papers for the theory part for each candidate at each examination/training center (as per assessment criteria below).

5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/ training center based on these criteria.

6. To pass the Qualification Pack assessment, every trainee should score a minimum of 70% of % aggregate marks to successfully clear the assessment.

7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Minimum Aggregate Passing % at QP Level : 70

(**Please note**: Every Trainee should score a minimum aggregate passing percentage as specified above, to successfully clear the Qualification Pack assessment.)

Assessment Weightage

Compulsory NOS

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
AGR/N1249.Identify compatible farm enterprises for integrated farming system	20	15	-	15	50	10
AGR/N1250.Undertake integration of different enterprises to ensure resource use efficiency in an Integrated Farming System	20	20	-	10	50	20
AGR/N1251.Implement biosecurity measures	15	20	-	15	50	10
AGR/N1252.Manage an integrated farm production	15	20	-	15	50	25
AGR/N1253.Harvest and market crops/produce in an Integrated Farming system	15	20	-	15	50	15
AGR/N1254.Ensure traceability and sustainability in an integrated farming system	20	15	-	15	50	15
DGT/VSQ/N0102.Employability Skills (60 Hours)	20	30	-	-	50	5
Total	**125**	**140**	**-**	**85**	**350**	**100**

Acronyms

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training

Glossary

Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.
Knowledge and Understanding (KU)	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.

Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/ Generic Skills (GS)	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.