



# Pickle Making Technician

QP Code: FIC/Q0102

Version: 2.0

NSQF Level: 3

Food Industry Capacity & Skill Initiative || Shriram Bharatiya Kala kendra, 3rd floor, 1, Copernicus Marg, Mandi House, New Delhi  
Delhi 110001

## Qualification Pack

### Contents

FIC/Q0102: Pickle Making Technician .....	3
<i>Brief Job Description</i> .....	3
Applicable National Occupational Standards (NOS) .....	3
<i>Compulsory NOS</i> .....	3
<i>Qualification Pack (QP) Parameters</i> .....	3
FIC/N0105: Prepare and maintain work area and process machineries for pickle making .....	5
FIC/N0106: Prepare for pickle making .....	10
FIC/N0107: Pickle making .....	16
FIC/N0108: Complete documentation and record keeping related to pickle making .....	25
FIC/N9001: Ensure food safety, hygiene and sanitation for processing food products .....	31
Assessment Guidelines and Weightage .....	36
<i>Assessment Guidelines</i> .....	36
<i>Assessment Weightage</i> .....	37
Acronyms .....	38
Glossary .....	39

## Qualification Pack

### FIC/Q0102: Pickle Making Technician

#### Brief Job Description

A Pickle Making Technician is responsible for preparation of all types of pickles from various fruits and vegetables through the process of washing, peeling, cutting/slicing, curing/brining, blending, filling, oil topping, packaging and storage.

#### Personal Attributes

A Pickle Making Technician must have the ability to plan, organize, prioritize, calculate and handle pressure. The individual must possess reading, writing and communication skills. In addition, the individual must have stamina and professional hygiene.

#### Applicable National Occupational Standards (NOS)

##### Compulsory NOS:

1. [FIC/N0105: Prepare and maintain work area and process machineries for pickle making](#)
2. [FIC/N0106: Prepare for pickle making](#)
3. [FIC/N0107: Pickle making](#)
4. [FIC/N0108: Complete documentation and record keeping related to pickle making](#)
5. [FIC/N9001: Ensure food safety, hygiene and sanitation for processing food products](#)

#### Qualification Pack (QP) Parameters

<b>Sector</b>	Food Processing
<b>Sub-Sector</b>	Fruits and Vegetables
<b>Occupation</b>	Processing-Fruits and Vegetables
<b>Country</b>	India
<b>NSQF Level</b>	3
<b>Aligned to NCO/ISCO/ISIC Code</b>	NCO-2004/7414.54

### Qualification Pack

<b>Minimum Educational Qualification &amp; Experience</b>	10th Class OR 8th Class with 2 Years of experience Relevant Experience
<b>Minimum Level of Education for Training in School</b>	8th Class
<b>Pre-Requisite License or Training</b>	1. Food standards for pickle 2. Method of food preservation 3. Food handling, packaging and storage techniques 4. Quality assessment of raw material, packaging materials and finished products 5. Waste management 6. Operation and maintenance of pickle processing machineries and equipments 7. GMP 8. HACCP 9. QMS 10. Computer basics and ERP system followed by the organization 11. Training in Food Safety Standards and Regulations (as per FSSAI) (Mandatory)
<b>Minimum Job Entry Age</b>	18 Years
<b>Last Reviewed On</b>	29/07/2021
<b>Next Review Date</b>	29/07/2024
<b>NSQC Approval Date</b>	29/07/2021
<b>Version</b>	2.0
<b>Reference code on NQR</b>	2021/FI/FICSI/04369
<b>NQR Version</b>	1.0

## Qualification Pack

# FIC/N0105: Prepare and maintain work area and process machineries for pickle making

## Description

This unit is about preparing and maintaining work area and process machineries for the pickle making process

## Elements and Performance Criteria

### *Prepare and maintain work area (for pickle making)*

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

- PC1.** clean and maintain the cleanliness of the work area using approved sanitizers and keep it free from dust, waste, flies and pests
- PC2.** ensure that work area is safe and hygienic for food processing
- PC3.** dispose waste materials as per defined SOPs and industry requirements

### *Prepare and maintain process machineries and tools (for pickle making)*

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

- PC4.** check the working and performance of all machineries and tools used for the pickle making process such as washer, peeler, vegetable cutter/slicer, blender, packaging machines, etc
- PC5.** clean the machineries and tools used with approved sanitizers following SOP
- PC6.** place the necessary tools required for process
- PC7.** attend to the minor repairs/ faults of all machines, if required

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** organization standards, process standards and procedures followed in the organisation
- KU2.** types of products produced by the organisation
- KU3.** code of business conduct
- KU4.** dress code to be followed
- KU5.** job responsibilities/duties and standard operating procedures
- KU6.** internal processes such as procurement, store management, inventory management, quality management and key contact points for query resolution
- KU7.** provision of wages, working hours as per organisation policy
- KU8.** food safety and hygiene standards followed
- KU9.** types of chemicals, materials and equipment required for the cleaning and maintenance
- KU10.** cleaning process to disinfect equipment/ tools
- KU11.** supplier/manufacturers instructions related to cleaning and maintenance
- KU12.** knowledge of food safety standards and regulations (as per FSSAI)

## Qualification Pack

**KU13.** knowledge of legal regulations pertaining to work place like health and safety, recommended dosage for use of sanitizers, control of substances hazardous to health, handling/storage/ disposal/ cautions of use of sanitizers and disinfectants, fire precautions, occurrences, hygiene practice, disposal of waste, environmental protection, etc.

### Generic Skills (GS)

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

- GS1.** note the information communicated by the supervisor
- GS2.** note the raw materials used for production and the finished products produced
- GS3.** note the readings of the process parameters and provide necessary information to fill the process chart
- GS4.** note down observations (if any) related to the process
- GS5.** write information documents to internal departments/ internal teams
- GS6.** note down the data for online ERP or as per applicability in the organization
- GS7.** read and interpret the process required for producing various types of products
- GS8.** read and interpret and process flowchart for all products produced
- GS9.** read equipment manuals and process documents to understand the equipments operation and process requirement
- GS10.** read internal information documents sent by internal teams
- GS11.** discuss task lists, schedules and activities with the supervisor
- GS12.** effectively communicate with the team members
- GS13.** question the supervisor in order to understand the nature of the problem and to clarify queries
- GS14.** attentively listen and comprehend the information given by the speaker
- GS15.** communicate clearly with the supervisor and cross department teams on the issues faced during process
- GS16.** analyse critical points in day to day tasks through experience and observation and identify control measures to solve the issue
- GS17.** handle issues in case the supervisor is not available (as per the authority matrix defined by the organization)
- GS18.** plan and organize the work order and jobs received from the supervisor
- GS19.** organize raw materials and packaging materials required for all products following the instruction provided by the supervisor
- GS20.** plan and prioritize the work based on the instructions received from the supervisor
- GS21.** plan to utilise time and equipment's effectively
- GS22.** organize all process/ equipment manuals so as to access information easily
- GS23.** support the supervisor in scheduling tasks for helper(s)
- GS24.** understand customer requirements and their priority and respond as per their needs
- GS25.** support supervisor in solving problems by detailing out problems
- GS26.** discuss the possible solutions with the supervisor for problem solving

## Qualification Pack

- GS27.** apply domain information about maintenance processes and technical knowledge about tools and equipment
- GS28.** use common sense and make judgments on day to day basis
- GS29.** use reasoning skills to identify and resolve basic problems
- GS30.** use intuition to detect any potential problems which could arise during operations
- GS31.** use acquired knowledge of the process for identifying and handling issues

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Prepare and maintain work area (for pickle making)</i>	<b>18</b>	<b>32</b>	-	-
<b>PC1.</b> clean and maintain the cleanliness of the work area using approved sanitizers and keep it free from dust, waste, flies and pests	10	15	-	-
<b>PC2.</b> ensure that work area is safe and hygienic for food processing	3	7	-	-
<b>PC3.</b> dispose waste materials as per defined SOPs and industry requirements	5	10	-	-
<i>Prepare and maintain process machineries and tools (for pickle making)</i>	<b>17</b>	<b>33</b>	-	-
<b>PC4.</b> check the working and performance of all machineries and tools used for the pickle making process such as washer, peeler, vegetable cutter/slicer, blender, packaging machines, etc	5	10	-	-
<b>PC5.</b> clean the machineries and tools used with approved sanitizers following SOP	5	10	-	-
<b>PC6.</b> place the necessary tools required for process	2	3	-	-
<b>PC7.</b> attend to the minor repairs/ faults of all machines, if required	5	10	-	-
<b>NOS Total</b>	<b>35</b>	<b>65</b>	-	-

## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	FIC/N0105
<b>NOS Name</b>	Prepare and maintain work area and process machineries for pickle making
<b>Sector</b>	Food Processing
<b>Sub-Sector</b>	Fruits and Vegetables
<b>Occupation</b>	Processing
<b>NSQF Level</b>	4
<b>Credits</b>	TBD
<b>Version</b>	1.0
<b>Last Reviewed Date</b>	29/07/2021
<b>Next Review Date</b>	29/07/2024
<b>NSQC Clearance Date</b>	29/07/2021

## Qualification Pack

### FIC/N0106: Prepare for pickle making

#### Description

This unit is about preparing for the production of various types of pickles through planning production and machinery utilization, organizing raw materials, packaging materials and machineries for production

#### Elements and Performance Criteria

##### *Provide support in production planning (for pickle making)*

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

- PC1.** read and understand the production order from the supervisor
- PC2.** check the availability of raw materials, packaging materials, equipment availability and manpower
- PC3.** support in planning production sequence by: grouping products from types of fruits (pulpy fruits, citrus fruits etc), selecting raw materials that do not impact the quality of the other avoiding cip after each product using the same equipment and machinery for various products planning maximum capacity utilization of machineries considering the process time for each product planning efficient utilization of resources/manpower prioritizing urgent orders
- PC4.** calculate the batch size based on the production order and machine capacity
- PC5.** calculate the raw material requirement (considering the process loss) to produce the required quantity of finished product(s)
- PC6.** calculate the raw materials (including ingredients, if any), packaging materials and manpower requirement for completing the order

##### *Plan equipment utilization (for pickle making)*

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

- PC7.** ensure the working and performance of each equipment required for process
- PC8.** calculate the process time for effective utilization of machineries
- PC9.** plan batch size considering full capacity utilization of machineries
- PC10.** plan to utilize machineries for multiple products without affecting the quality of the finished products, and to optimize production and saving energy
- PC11.** allot responsibilities/ work to the assistants and helpers

##### *Organize and check equipments and raw material (for pickle making)*

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

- PC12.** refer to the process chart/ product flow chart/formulation chart for product(s) produced
- PC13.** weigh the raw materials required for the batch
- PC14.** sharpen and change blades of cutting/slicing machine as required for the product produced
- PC15.** check the conformance of raw material quality to company standards, through physical analysis and by referring to the quality analysis report from the supplier / internal lab analysis
- PC16.** ensure working and performance of required machineries and tools
- PC17.** keep the tools accessible to attend repairs/faults in case of breakdown

## Qualification Pack

### Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** organization standards, process standards and procedures followed in the organisation
- KU2.** types of products produced by the organisation
- KU3.** code of business conduct
- KU4.** dress code to be followed
- KU5.** job responsibilities/duties and standard operating procedures
- KU6.** internal processes such as procurement, store management, inventory management, quality management and key contact points for query resolution
- KU7.** provision of wages, working hours as per organisation policy
- KU8.** food safety and hygiene standards followed
- KU9.** types of raw materials (varieties of vegetables) and products obtained from each raw material
- KU10.** types of machineries used in processing and machineries used in the organisation
- KU11.** maintenance of process equipments
- KU12.** supplier/manufacturers instructions related to machineries
- KU13.** process for producing each product
- KU14.** basic mathematics
- KU15.** calculation of raw material for required quantity of finished product
- KU16.** quality parameters, basic food microbiology and quality assessment based on physical parameters
- KU17.** food safety and hygiene
- KU18.** GMP
- KU19.** HACCP

### Generic Skills (GS)

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

- GS1.** note the information communicated by the supervisor
- GS2.** note the raw materials used for production and the finished products produced
- GS3.** note the readings of the process parameters and provide necessary information to fill the process chart
- GS4.** note down observations (if any) related to the process
- GS5.** write information documents to internal departments/ internal teams
- GS6.** note down the data for online erp or as per applicability in the organization
- GS7.** read and interpret the process required for producing various types of products
- GS8.** read and interpret and process flowchart for all products produced
- GS9.** read equipment manuals and process documents to understand the equipments operation and process requirement
- GS10.** read internal information documents sent by internal teams

## Qualification Pack

- GS11.** discuss task lists, schedules and activities with the supervisor
- GS12.** effectively communicate with the team members
- GS13.** question the supervisor in order to understand the nature of the problem and to clarify queries
- GS14.** attentively listen and comprehend the information given by the speaker
- GS15.** communicate clearly with the supervisor and cross department teams on the issues faced during process
- GS16.** analyse critical points in day to day tasks through experience and observation and identify control measures to solve the issue
- GS17.** handle issues in case the supervisor is not available (as per the authority matrix defined by the organization)
- GS18.** plan and organize the work order and jobs received from the supervisor
- GS19.** organize raw materials and packaging materials required for all products following the instruction provided by the supervisor
- GS20.** plan and prioritize the work based on the instructions received from the supervisor
- GS21.** plan to utilise time and equipment's effectively
- GS22.** organize all process/ equipment manuals so as to access information easily
- GS23.** support the supervisor in scheduling tasks for helper(s)
- GS24.** understand customer requirements and their priority and respond as per their needs
- GS25.** support supervisor in solving problems by detailing out problems
- GS26.** discuss the possible solutions with the supervisor for problem solving
- GS27.** apply domain information about maintenance processes and technical knowledge about tools and equipment
- GS28.** use common sense and make judgments on day to day basis
- GS29.** use reasoning skills to identify and resolve basic problems
- GS30.** use intuition to detect any potential problems which could arise during operations
- GS31.** use acquired knowledge of the process for identifying and handling issues

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Provide support in production planning (for pickle making)</i>	<b>17</b>	<b>28</b>	-	-
<b>PC1.</b> read and understand the production order from the supervisor	4	6	-	-
<b>PC2.</b> check the availability of raw materials, packaging materials, equipment availability and manpower	2	3	-	-
<b>PC3.</b> support in planning production sequence by: grouping products from types of fruits (pulpy fruits, citrus fruits etc), selecting raw materials that do not impact the quality of the other avoiding cip after each product using the same equipment and machinery for various products planning maximum capacity utilization of machineries considering the process time for each product planning efficient utilization of resources/manpower prioritizing urgent orders	5	10	-	-
<b>PC4.</b> calculate the batch size based on the production order and machine capacity	2	3	-	-
<b>PC5.</b> calculate the raw material requirement (considering the process loss) to produce the required quantity of finished product(s)	2	3	-	-
<b>PC6.</b> calculate the raw materials (including ingredients, if any), packaging materials and manpower requirement for completing the order	2	3	-	-
<i>Plan equipment utilization (for pickle making)</i>	<b>7.5</b>	<b>17.5</b>	-	-
<b>PC7.</b> ensure the working and performance of each equipment required for process	2	5	-	-
<b>PC8.</b> calculate the process time for effective utilization of machineries	2	5	-	-
<b>PC9.</b> plan batch size considering full capacity utilization of machineries	1	2	-	-

### Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC10.</b> plan to utilize machineries for multiple products without affecting the quality of the finished products, and to optimize production and saving energy	1	2	-	-
<b>PC11.</b> allot responsibilities/ work to the assistants and helpers	1.5	3.5	-	-
<i>Organize and check equipments and raw material (for pickle making)</i>	<b>10.5</b>	<b>19.5</b>	-	-
<b>PC12.</b> refer to the process chart/ product flow chart/formulation chart for product(s) produced	1	2	-	-
<b>PC13.</b> weigh the raw materials required for the batch	1	4	-	-
<b>PC14.</b> sharpen and change blades of cutting/slicing machine as required for the product produced	1	2	-	-
<b>PC15.</b> check the conformance of raw material quality to company standards, through physical analysis and by referring to the quality analysis report from the supplier / internal lab analysis	4	6	-	-
<b>PC16.</b> ensure working and performance of required machineries and tools	3	4	-	-
<b>PC17.</b> keep the tools accessible to attend repairs/faults in case of breakdown	0.5	1.5	-	-
<b>NOS Total</b>	<b>35</b>	<b>65</b>	-	-

## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	FIC/N0106
<b>NOS Name</b>	Prepare for pickle making
<b>Sector</b>	Food Processing
<b>Sub-Sector</b>	Fruits and Vegetables
<b>Occupation</b>	Processing
<b>NSQF Level</b>	4
<b>Credits</b>	TBD
<b>Version</b>	1.0
<b>Last Reviewed Date</b>	29/07/2021
<b>Next Review Date</b>	29/07/2024
<b>NSQC Clearance Date</b>	29/07/2021

## Qualification Pack

### FIC/N0107: Pickle making

#### Description

This unit is about preparing different types of pickles from fruits and vegetables using various machineries as per the specifications and standards of the organization

#### Elements and Performance Criteria

##### *Receive, wash and sort vegetables*

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

- PC1.** receive vegetables from the supplier/vendor, check weight and check quality through physical parameters such as appearance, colour, texture, maturity, etc
- PC2.** pump water into the washing tank and control water level, dump vegetables into the washing tank for washing or wash and rinse the vegetables manually
- PC3.** start the ladder conveyor to lift the vegetables from the washing tank and to transfer to the conveyor
- PC4.** open valves of the high pressure spraying system for fresh water and adjust pressure to spray water on vegetables for rinsing
- PC5.** control speed of drying line conveyor, control air temperature and fan speed/air flow and start conveyor to dry vegetables or start roller conveyor with rolling brushes for wiping and transfer vegetables to sorting line
- PC6.** start and adjust speed of sorting/inspecting line conveyor to remove damaged, blemished and rotten vegetables

##### *Peel and slice vegetables*

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

- PC7.** dump the sorted vegetables in the peeling machine (depending on the type of vegetable), start the peeler machine and adjust the speed to remove the peel, pump water or open valve/spraying system to wash the peeled vegetables
- PC8.** prepare lye solution by adding measured quantity of lye chemical and water into lye tank, turn valves to admit steam to heat lye solution, start conveyor and adjust speed to carry manually/mechanically into the lye tank, and pull out the basket after specified time following sop (lye peeling)
- PC9.** observe vegetable emerging from lye peeling machine /lye tank to ensure removal of peel and open valves to drain the excess lye solution
- PC10.** load the vegetables in the cutter/slicer machine, adjust controls to cut vegetables to required size, start machine, collect sliced vegetables from the discharge chute
- PC11.** start inspection line conveyor and control speed, transfer cut/sliced vegetable on the conveyor belt, visually inspect sliced vegetables for conformance to organisation standards and remove non-conforming materials from the line

##### *Prepare brine solution and cure vegetables*

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

- PC12.** open valve to admit measured quantity of water into steam jacketed kettle/tank, observe water gauge or designated mark for filled quantity, weigh required quantity of salt as per formulation and add into tank to prepare brine solution

## Qualification Pack

- PC13.** start and control speed of the agitator of the steam jacketed kettle/tank, turn valves to set required pressure and open valve to admit steam to heat the solution following sop
- PC14.** observe pressure and temperature gauge, and regulate steam to maintain temperature, check brine solution using salinometer equipment to ensure conformance of its specifications to standards
- PC15.** open valve or start pump to transfer brine solution from mixing tank to storage or holding tanks for later use
- PC16.** start pump to transfer measured quantity of brine solution from storage tank/kettle to the curing drums/barrels, add measured quantity of cut/whole vegetables, close with lid and allow to stand for specified time (few weeks) for curing/natural fermentation following sop
- PC17.** mix the vegetables periodically either mechanically/manually for salt equilibrium, sample and check for acidity to ensure completion of fermentation
- PC18.** store cured vegetable following sop until further process

### *Prepare and pack pickle*

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

- PC19.** refer to the work order and formulation for the product/batch
- PC20.** organize required raw material (cured vegetable), ingredients, spices, packaging material, etc. from store and check its conformance to standards, through physical parameters
- PC21.** remove cured vegetables from drums/barrels/tank and transfer into the washing tank, pump water into tank to wash vegetables to remove excess salt, open valve to drain water or dump on the washing line and start the conveyor, open valves of the high pressure spraying system for fresh water and adjust pressure to spray water on vegetables to remove excess salt
- PC22.** transfer washed vegetables to the pickle mixing machine, prepare spice mix as per formulation, add measured quantity of spice mixture and oil into the vegetables, adjust controls to set mixing speed and start machine to mix all the ingredients, check the quality of pickle, and open valve to transfer pickle into container (for pickle in oil)
- PC23.** start conveyor and control speed to load cured and washed vegetable into the hopper of the filling machine (for pickle in brine)
- PC24.** set pickle and oil filling machine (for pickle in oil) and vegetable and brine filling machine (for pickle in brine) for filling quantity and volume, start packaging line conveyor and control speed to ensure containers are positioned under the filling nozzles of pickle/vegetable and oil/brine
- PC25.** load lids and labels in automatic packaging machine, set date code (batchnumber, date of manufacture, date of expiry, etc.) start machine, controlspeed of conveyor and observe filling of pickle and oil, vegetable and brine,ensure proper sealing and labeling of containers
- PC26.** check weight of the filled containers periodically for quantity of vegetable filled and volume of liquid filled to ensure its conformance to standards
- PC27.** observe filled container leaving machines to detect defects, check the weight of the finished product, sample and transfer to quality lab for analysis
- PC28.** pack the finished product into cartons and transfer to storage area manually or mechanically and store following organisation standards
- PC29.** report discrepancies/concerns to department supervisor for immediate action

### *Carry out post production cleaning and regular maintenance of equipments*

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

## Qualification Pack

- PC30.** clean work area, machineries, equipment and tools using approved cleaning agents and sanitizers
- PC31.** attend minor repairs/faults of all machines (if any)
- PC32.** ensure periodic (daily/weekly/monthly/quarterly/half yearly/annual) maintenance of all machines and equipment following the SOP or following suppliers instructions/manuals

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** organization standards, process standards and procedures followed in the organization
- KU2.** types of products produced by the organization
- KU3.** code of business conduct
- KU4.** dress code to be followed
- KU5.** job responsibilities/duties and standard operating procedures
- KU6.** internal processes like procurement, store management, inventory management, quality management and key contact points for query resolution
- KU7.** provision of wages, working hours as per organization policy
- KU8.** food safety and hygiene standards followed
- KU9.** types of raw materials (various vegetables) and products prepared from each raw materials
- KU10.** production process, process parameters and product formulation for various products produced
- KU11.** types of machineries used in processing and machineries used in the organization
- KU12.** handling all machineries
- KU13.** maintenance of machineries, equipments and tools
- KU14.** procedures to handle rejects
- KU15.** quality parameters, basic food microbiology and quality assessment based on physical parameters
- KU16.** types and category of packaging materials, packaging machineries
- KU17.** storage procedures for raw materials, packaging materials and finished goods
- KU18.** cleaning procedures such as CIP and COP
- KU19.** knowledge of sanitizers and disinfectants and its handling and storing methods
- KU20.** food laws and regulations on product, packaging and labelling
- KU21.** food safety and hygiene
- KU22.** GMP
- KU23.** HACCP

## Generic Skills (GS)

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

- GS1.** note the information communicated by the supervisor
- GS2.** note the raw materials used for production and the finished products produced

## Qualification Pack

- GS3.** note the readings of the process parameters and provide necessary information to fill the process chart
- GS4.** note down observations (if any) related to the process
- GS5.** write information documents to internal departments/ internal teams
- GS6.** note down the data for online ERP or as per applicability in the organization
- GS7.** read and interpret the process required for producing various types of products
- GS8.** read and interpret and process flowchart for all products produced
- GS9.** read equipment manuals and process documents to understand the equipments operation and process requirement
- GS10.** read internal information documents sent by internal teams
- GS11.** discuss task lists, schedules and activities with the supervisor
- GS12.** effectively communicate with the team members
- GS13.** question the supervisor in order to understand the nature of the problem and to clarify queries
- GS14.** attentively listen and comprehend the information given by the speaker
- GS15.** communicate clearly with the supervisor and cross department teams on the issues faced during process
- GS16.** analyze critical points in day to day tasks through experience and observation and identify control measures to solve the issue
- GS17.** handle issues in case the supervisor is not available (as per the authority matrix defined by the organization)
- GS18.** plan and organize the work order and jobs received from the supervisor
- GS19.** organize raw materials and packaging materials required for all products following the instruction provided by the supervisor
- GS20.** plan and prioritize the work based on the instructions received from the supervisor
- GS21.** plan to utilize time and equipment's effectively
- GS22.** organize all process/ equipment manuals so as to access information easily
- GS23.** support the supervisor in scheduling tasks for helper(s)
- GS24.** understand customer requirements and their priority and respond as per their needs
- GS25.** supervisor in solving problems by detailing out problems
- GS26.** the possible solutions with the supervisor for problem solving
- GS27.** apply domain information about maintenance processes and technical knowledge about tools and equipment
- GS28.** use common sense and make judgments on day to day basis
- GS29.** use reasoning skills to identify and resolve basic problems
- GS30.** use intuition to detect any potential problems which could arise during operations
- GS31.** use acquired knowledge of the process for identifying and handling issues

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Receive, wash and sort vegetables</i>	<b>6</b>	<b>9</b>	-	-
<b>PC1.</b> receive vegetables from the supplier/vendor, check weight and check quality through physical parameters such as appearance, colour, texture, maturity, etc	1.5	1.5	-	-
<b>PC2.</b> pump water into the washing tank and control water level, dump vegetables into the washing tank for washing or wash and rinse the vegetables manually	0.5	1.5	-	-
<b>PC3.</b> start the ladder conveyor to lift the vegetables from the washing tank and to transfer to the conveyor	0.5	1.5	-	-
<b>PC4.</b> open valves of the high pressure spraying system for fresh water and adjust pressure to spray water on vegetables for rinsing	0.5	1.5	-	-
<b>PC5.</b> control speed of drying line conveyor, control air temperature and fan speed/air flow and start conveyor to dry vegetables or start roller conveyor with rolling brushes for wiping and transfer vegetables to sorting line	1.5	1.5	-	-
<b>PC6.</b> start and adjust speed of sorting/inspecting line conveyor to remove damaged, blemished and rotten vegetables	1.5	1.5	-	-
<i>Peel and slice vegetables</i>	<b>5</b>	<b>10</b>	-	-
<b>PC7.</b> dump the sorted vegetables in the peeling machine (depending on the type of vegetable), start the peeler machine and adjust the speed to remove the peel, pump water or open valve/spraying system to wash the peeled vegetables	1.5	1.5	-	-
<b>PC8.</b> prepare lye solution by adding measured quantity of lye chemical and water into lye tank, turn valves to admit steam to heat lye solution, start conveyor and adjust speed to carry manually/mechanically into the lye tank, and pull out the basket after specified time following sop (lye peeling)	1	2	-	-

**Qualification Pack**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC9.</b> observe vegetable emerging from lye peeling machine /lye tank to ensure removal of peel and open valves to drain the excess lye solution	0.5	1.5	-	-
<b>PC10.</b> load the vegetables in the cutter/slicer machine, adjust controls to cut vegetables to required size, start machine, collect sliced vegetables from the discharge chute	1	3	-	-
<b>PC11.</b> start inspection line conveyor and control speed, transfer cut/sliced vegetable on the conveyor belt, visually inspect sliced vegetables for conformance to organisation standards and remove non-conforming materials from the line	1	2	-	-
<i>Prepare brine solution and cure vegetables</i>	<b>6</b>	<b>14</b>	-	-
<b>PC12.</b> open valve to admit measured quantity of water into steam jacketed kettle/tank, observe water gauge or designated mark for filled quantity, weigh required quantity of salt as per formulation and add into tank to prepare brine solution	0.5	1.5	-	-
<b>PC13.</b> start and control speed of the agitator of the steam jacketed kettle/tank, turn valves to set required pressure and open valve to admit steam to heat the solution following sop	1	3	-	-
<b>PC14.</b> observe pressure and temperature gauge, and regulate steam to maintain temperature, check brine solution using salinometer equipment to ensure conformance of its specifications to standards	1	3	-	-
<b>PC15.</b> open valve or start pump to transfer brine solution from mixing tank to storage or holding tanks for later use	0.5	0.5	-	-
<b>PC16.</b> start pump to transfer measured quantity of brine solution from storage tank/kettle to the curing drums/barrels, add measured quantity of cut/whole vegetables, close with lid and allow to stand for specified time (few weeks) for curing/natural fermentation following sop	1	3	-	-
<b>PC17.</b> mix the vegetables periodically either mechanically/manually for salt equilibrium, sample and check for acidity to ensure completion of fermentation	1	2	-	-

**Qualification Pack**

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC18.</b> store cured vegetable following sop until further process	1	1	-	-
<i>Prepare and pack pickle</i>	<b>15</b>	<b>25</b>	-	-
<b>PC19.</b> refer to the work order and formulation for the product/batch	1	1	-	-
<b>PC20.</b> organize required raw material (cured vegetable), ingredients, spices, packaging material, etc. from store and check its conformance to standards, through physical parameters	1	2	-	-
<b>PC21.</b> remove cured vegetables from drums/barrels/tank and transfer into the washing tank, pump water into tank to wash vegetables to remove excess salt, open valve to drain water or dump on the washing line and start the conveyor, open valves of the high pressure spraying system for fresh water and adjust pressure to spray water on vegetables to remove excess salt	2	4	-	-
<b>PC22.</b> transfer washed vegetables to the pickle mixing machine, prepare spice mix as per formulation, add measured quantity of spice mixture and oil into the vegetables, adjust controls to set mixing speed and start machine to mix all the ingredients, check the quality of pickle, and open valve to transfer pickle into container (for pickle in oil)	2	4	-	-
<b>PC23.</b> start conveyor and control speed to load cured and washed vegetable into the hopper of the filling machine (for pickle in brine)	1.5	1.5	-	-
<b>PC24.</b> set pickle and oil filling machine (for pickle in oil) and vegetable and brine filling machine (for pickle in brine) for filling quantity and volume, start packaging line conveyor and control speed to ensure containers are positioned under the filling nozzles of pickle/vegetable and oil/brine	2	4	-	-
<b>PC25.</b> load lids and labels in automatic packaging machine, set date code (batchnumber, date of manufacture, date of expiry, etc.) start machine, controlspeed of conveyor and observe filling of pickle and oil, vegetable and brine,ensure proper sealing and labeling of containers	2	2	-	-

### Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC26.</b> check weight of the filled containers periodically for quantity of vegetable filled and volume of liquid filled to ensure its conformance to standards	1	2	-	-
<b>PC27.</b> observe filled container leaving machines to detect defects, check the weight of the finished product, sample and transfer to quality lab for analysis	1	2	-	-
<b>PC28.</b> pack the finished product into cartons and transfer to storage area manually or mechanically and store following organisation standards	0.5	1.5	-	-
<b>PC29.</b> report discrepancies/concerns to department supervisor for immediate action	1	1	-	-
<i>Carry out post production cleaning and regular maintenance of equipments</i>	<b>3</b>	<b>7</b>	-	-
<b>PC30.</b> clean work area, machineries, equipment and tools using approved cleaning agents and sanitizers	1	3	-	-
<b>PC31.</b> attend minor repairs/faults of all machines (if any)	1	3	-	-
<b>PC32.</b> ensure periodic (daily/weekly/monthly/quarterly/half yearly/annual) maintenance of all machines and equipment following the SOP or following suppliers instructions/manuals	1	1	-	-
<b>NOS Total</b>	<b>35</b>	<b>65</b>	-	-

## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	FIC/N0107
<b>NOS Name</b>	Pickle making
<b>Sector</b>	Food Processing
<b>Sub-Sector</b>	Fruits and Vegetables, Bread and Bakery, Packaged Goods
<b>Occupation</b>	GENERIC
<b>NSQF Level</b>	4
<b>Credits</b>	TBD
<b>Version</b>	1.0
<b>Last Reviewed Date</b>	30/09/2021
<b>Next Review Date</b>	29/06/2024
<b>NSQC Clearance Date</b>	30/09/2021

## Qualification Pack

# FIC/N0108: Complete documentation and record keeping related to pickle making

## Description

This unit is about documenting and maintaining records of raw materials, process and finished products related to pickle making

## Elements and Performance Criteria

### *Document and maintain records of raw materials (related to pickle making)*

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

- PC1.** document and maintain record of details of raw materials and packaging materials (name of raw materials, type and variety, vendor/supplier details, season, grown area, quantity, receiving date, supplier details, receiving date/ date of manufacture, expiry date, supplier quality document, quality parameters of all raw materials, internal quality analysis report, etc.) as per organisation standards
- PC2.** document and maintain record on observations (if any) related to raw materials and packaging materials
- PC3.** load the raw materials details in erp for future reference
- PC4.** verify the documents and track from finished product to raw materials, in case of quality concerns and during quality management system audits

### *Document and maintain records of production schedule and process parameters (related to pickle making)*

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

- PC5.** document and maintain records of production plan with details ( product details, production sequence, equipments and machinery details, efficiency and capacity utilization of equipment)
- PC6.** document and maintain records of process details (type or raw material used, process parameters such as temperature, time, pressure, etc. as applicable) for entire production in process chart or production log for all products produced
- PC7.** document and maintain records of batch size, production yield, wastage of raw materials, energy utilization and final products produced
- PC8.** document and maintain record of observations (if any) or deviations related to process and production
- PC9.** load the production plan and process details in erp for future reference
- PC10.** verify documents and track from finished product to ingredients, in case of quality concerns and for quality management system audits

### *Document and maintain records of the finished products*

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

- PC11.** document and maintain records of the types of finished products produced
- PC12.** document and maintain records of the finished products details (batch number, time of packing, date of manufacture, date of expiry, other label details, primary, secondary and tertiary packaging materials, storage conditions, etc.) as per organisation standards

## Qualification Pack

- PC13.** document and maintain record on observations or deviations (if any) related to finished products
- PC14.** load the finished product details in erp for future reference
- PC15.** verify the documents and track from finished product to ingredients, in case of quality concerns and for quality management system audits

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** organization standards, process standards and procedures followed in the organization
- KU2.** types of products produced by the organization
- KU3.** code of business conduct
- KU4.** dress code to be followed
- KU5.** job responsibilities/duties and standard operating procedures
- KU6.** internal processes such as procurement, store management, inventory management, quality management and key contact points for query resolution
- KU7.** provision of wages, working hours and accident compensation as per organization policy
- KU8.** food safety and hygiene standards followed
- KU9.** documentation system followed in the organization such as production chart, process chart and finished goods chart
- KU10.** details to be recorded on raw materials and finished products
- KU11.** details to be recorded and maintained on production plan and process parameters
- KU12.** methods to document and maintain records on observations (if any) related to raw materials, process and finished products
- KU13.** methods to track back the record from finished product to raw material
- KU14.** basic computer knowledge
- KU15.** entering details in the ERP system followed by the organization

## Generic Skills (GS)

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

- GS1.** note the information communicated by the supervisor
- GS2.** note the raw materials used for production and the finished products produced
- GS3.** note the readings of the process parameters and provide necessary information to fill the process chart
- GS4.** note down observations (if any) related to the process
- GS5.** write information documents to internal departments/ internal teams
- GS6.** note down the data for online ERP or as per applicability in the organization
- GS7.** read and interpret the process required for producing various types of products
- GS8.** read and interpret and process flowchart for all products produced

## Qualification Pack

- GS9.** read equipment manuals and process documents to understand the equipments operation and process requirement
- GS10.** read internal information documents sent by internal teams
- GS11.** discuss task lists, schedules and activities with the supervisor
- GS12.** effectively communicate with the team members
- GS13.** question the supervisor in order to understand the nature of the problem and to clarify queries
- GS14.** attentively listen and comprehend the information given by the speaker
- GS15.** communicate clearly with the supervisor and cross department teams on the issues faced during process
- GS16.** analyse critical points in day to day tasks through experience and observation and identify control measures to solve the issue
- GS17.** handle issues in case the supervisor is not available (as per the authority matrix defined by the organization)
- GS18.** plan and organize the work order and jobs received from the supervisor
- GS19.** organize raw materials and packaging materials required for all products following the instruction provided by the supervisor
- GS20.** plan and prioritize the work based on the instructions received from the supervisor
- GS21.** plan to utilise time and equipment's effectively
- GS22.** organize all process/ equipment manuals so as to access information easily
- GS23.** support the supervisor in scheduling tasks for helper(s)
- GS24.** understand customer requirements and their priority and respond as per their needs
- GS25.** supervisor in solving problems by detailing out problems
- GS26.** discuss the possible solutions with the supervisor for problem solving
- GS27.** apply domain information about maintenance processes and technical knowledge about tools and equipment
- GS28.** use common sense and make judgments on day to day basis
- GS29.** use reasoning skills to identify and resolve basic problems
- GS30.** use intuition to detect any potential problems which could arise during operations
- GS31.** use acquired knowledge of the process for identifying and handling issues

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Document and maintain records of raw materials (related to pickle making)</i>	<b>15</b>	<b>10</b>	-	-
<b>PC1.</b> document and maintain record of details of raw materials and packaging materials (name of raw materials, type and variety, vendor/supplier details, season, grown area, quantity, receiving date, supplier details, receiving date/ date of manufacture, expiry date, supplier quality document, quality parameters of all raw materials, internal quality analysis report, etc.) as per organisation standards	6	4	-	-
<b>PC2.</b> document and maintain record on observations (if any) related to raw materials and packaging materials	3	2	-	-
<b>PC3.</b> load the raw materials details in erp for future reference	3	2	-	-
<b>PC4.</b> verify the documents and track from finished product to raw materials, in case of quality concerns and during quality management system audits	3	2	-	-
<i>Document and maintain records of production schedule and process parameters (related to pickle making)</i>	<b>30</b>	<b>20</b>	-	-
<b>PC5.</b> document and maintain records of production plan with details ( product details, production sequence, equipments and machinery details, efficiency and capacity utilization of equipment)	6	4	-	-
<b>PC6.</b> document and maintain records of process details (type or raw material used, process parameters such as temperature, time, pressure, etc. as applicable) for entire production in process chart or production log for all products produced	9	6	-	-
<b>PC7.</b> document and maintain records of batch size, production yield, wastage of raw materials, energy utilization and final products produced	6	4	-	-
<b>PC8.</b> document and maintain record of observations (if any) or deviations related to process and production	3	2	-	-

### Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC9.</b> load the production plan and process details in erp for future reference	3	2	-	-
<b>PC10.</b> verify documents and track from finished product to ingredients, in case of quality concerns and for quality management system audits	3	2	-	-
<i>Document and maintain records of the finished products</i>	<b>15</b>	<b>10</b>	-	-
<b>PC11.</b> document and maintain records of the types of finished products produced	2	1	-	-
<b>PC12.</b> document and maintain records of the finished products details (batch number, time of packing, date of manufacture, date of expiry, other label details, primary,secondary and tertiary packaging materials, storage conditions, etc.)as per organisation standards	4	3	-	-
<b>PC13.</b> document and mmaintain record on observations or deviations (if any) related to finished products	3	2	-	-
<b>PC14.</b> load the finished product details in erp for future reference	3	2	-	-
<b>PC15.</b> verify the documents and track from finished product to ingredients, in case of quality concerns and for quality management system audits	3	2	-	-
<b>NOS Total</b>	<b>60</b>	<b>40</b>	-	-

## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	FIC/N0108
<b>NOS Name</b>	Complete documentation and record keeping related to pickle making
<b>Sector</b>	Food Processing
<b>Sub-Sector</b>	Fruits and Vegetables
<b>Occupation</b>	Processing
<b>NSQF Level</b>	4
<b>Credits</b>	TBD
<b>Version</b>	1.0
<b>Last Reviewed Date</b>	29/07/2021
<b>Next Review Date</b>	29/07/2024
<b>NSQC Clearance Date</b>	29/07/2021

## Qualification Pack

# FIC/N9001: Ensure food safety, hygiene and sanitation for processing food products

## Description

This unit is about maintaining food safety, hygiene and sanitation in work area and processing unit for processing food products

## Elements and Performance Criteria

### *Perform safety and sanitation related functions (for processing food products)*

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

- PC1.** comply with food safety and hygiene procedures followed in the organization
- PC2.** ensure personal hygiene by use of gloves, hairnets, masks, ear plugs, goggles, shoes, etc.
- PC3.** ensure hygienic production of food by inspecting raw materials, ingredients, finished products etc. for compliance to physical, chemical and microbiological parameters
- PC4.** pack products in appropriate packaging materials, label and store them in designated area, free from pests, flies and infestations
- PC5.** clean, maintain and monitor food processing equipment periodically, using it only for the specified purpose
- PC6.** use safety equipment such as fire extinguisher, eye wash unit, first aid kit when required
- PC7.** follow housekeeping practices by having designated area for machines/tools
- PC8.** follow industry standards like GMP, HACCP and product recall process
- PC9.** attend training on hazard management to understand types of hazards such as physical, chemical and biological hazards and measures to control and prevent them
- PC10.** Identify, document and report problems such as rodents and pests to management
- PC11.** conduct workplace checklist audit before and after work to ensure safety and hygiene
- PC12.** document and maintain raw material, packaging material, process and finished products for the credibility and effectiveness of the food safety control system

### *Apply food safety practices (for processing food products)*

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

- PC13.** determine the quality of food using criteria such as odour, appearance, taste and best before date, and take immediate measures to prevent spoilage
- PC14.** store raw materials, finished products and allergens separately to prevent cross contamination
- PC15.** label raw materials and finished products and store them in different storage areas according to safe food practices
- PC16.** follow stock rotation based on FEFO/FIFO

## Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** organization standards, process standards and procedures followed in the organisation

## Qualification Pack

- KU2.** types of products produced by the organisation
- KU3.** code of business conduct
- KU4.** dress code to be followed
- KU5.** job responsibilities/duties and standard operating procedures
- KU6.** internal processes such as procurement, store management, inventory management, quality management and key contact points for query resolution
- KU7.** provision of wages, working hours as per organisation policy
- KU8.** food safety and hygiene standards followed
- KU9.** possible physical, chemical and biological hazards and methods of prevention of various hazards
- KU10.** personal hygiene requirement
- KU11.** different types of sanitizers used for process area, equipment and the procedure to use them
- KU12.** knowledge on food safety standards and regulations (as per fssai)
- KU13.** quality parameters and quality assessment based on physical parameters, basic food microbiology
- KU14.** labelling/marketing requirements for raw materials, finished goods, stored materials, packaging materials and their designated storage area
- KU15.** cleaning and sanitation of equipment and work area
- KU16.** CIP and COP methods and procedures
- KU17.** storage norms for raw materials, packaging material and finished products
- KU18.** stock rotation of ingredients and finished products based on FEFO/FIFO
- KU19.** method of maintaining safety check lists for all machineries
- KU20.** GHP
- KU21.** GMP
- KU22.** HACCP

## Generic Skills (GS)

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

- GS1.** note the information communicated by the supervisor
- GS2.** note the raw materials used for production and the finished products produced
- GS3.** note the readings of the process parameters and provide necessary information to fill the process chart
- GS4.** note down observations (if any) related to the process
- GS5.** write information documents to internal departments/ internal teams
- GS6.** note down the data for online ERP or as per applicability in the organization
- GS7.** read and interpret the process required for producing various types of products
- GS8.** read and interpret and process flowchart for all products produced
- GS9.** read equipment manuals and process documents to understand the equipment operation and process requirement
- GS10.** read internal information documents sent by internal teams

## Qualification Pack

- GS11.** discuss task lists, schedules and activities with the supervisor
- GS12.** effectively communicate with the team members
- GS13.** question the supervisor in order to understand the nature of the problem and to clarify queries
- GS14.** attentively listen and comprehend the information given by the speaker
- GS15.** communicate clearly with the supervisor and cross department teams on the issues faced during process
- GS16.** analyse critical points in day to day tasks through experience and observation and identify control measures to solve the issue
- GS17.** handle issues in case the supervisor is not available (as per the authority matrix defined by the organization)
- GS18.** plan and organize the work order and jobs received from the supervisor
- GS19.** organize raw materials and packaging materials required for all products following the instruction provided by the supervisor
- GS20.** plan and prioritize the work based on the instructions received from the supervisor
- GS21.** plan to utilise time and equipment's effectively
- GS22.** organize all process/ equipment manuals so as to access information easily
- GS23.** support the supervisor in scheduling tasks for helper(s)
- GS24.** understand customer requirements and their priority and respond as per their needs
- GS25.** support supervisor in solving problems by detailing out problems
- GS26.** discuss the possible solutions with the supervisor for problem solving
- GS27.** apply domain information about maintenance processes and technical knowledge about tools and equipment
- GS28.** use common sense and make judgments on day to day basis
- GS29.** use reasoning skills to identify and resolve basic problems
- GS30.** use intuition to detect any potential problems which could arise during operations
- GS31.** use acquired knowledge of the process for identifying and handling issues

## Qualification Pack

### Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Perform safety and sanitation related functions (for processing food products)</i>	<b>25</b>	<b>50</b>	-	-
<b>PC1.</b> comply with food safety and hygiene procedures followed in the organization	2	3	-	-
<b>PC2.</b> ensure personal hygiene by use of gloves, hairnets, masks, ear plugs, goggles, shoes, etc.	1	5	-	-
<b>PC3.</b> ensure hygienic production of food by inspecting raw materials, ingredients, finished products etc. for compliance to physical, chemical and microbiological parameters	2	3	-	-
<b>PC4.</b> pack products in appropriate packaging materials, label and store them in designated area, free from pests, flies and infestations	4	6	-	-
<b>PC5.</b> clean, maintain and monitor food processing equipment periodically, using it only for the specified purpose	2	3	-	-
<b>PC6.</b> use safety equipment such as fire extinguisher, eye wash unit, first aid kit when required	4	6	-	-
<b>PC7.</b> follow housekeeping practices by having designated area for machines/tools	2	3	-	-
<b>PC8.</b> follow industry standards like GMP, HACCP and product recall process	4	6	-	-
<b>PC9.</b> attend training on hazard management to understand types of hazards such as physical, chemical and biological hazards and measures to control and prevent them	1	4	-	-
<b>PC10.</b> Identify, document and report problems such as rodents and pests to management	1	4	-	-
<b>PC11.</b> conduct workplace checklist audit before and after work to ensure safety and hygiene	1	4	-	-

### Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC12.</b> document and maintain raw material, packaging material, process and finished products for the credibility and effectiveness of the food safety control system	1	3	-	-
<i>Apply food safety practices (for processing food products)</i>	<b>10</b>	<b>15</b>	-	-
<b>PC13.</b> determine the quality of food using criteria such as odour, appearance, taste and best before date, and take immediate measures to prevent spoilage	2	3	-	-
<b>PC14.</b> store raw materials, finished products and allergens separately to prevent cross contamination	2	3	-	-
<b>PC15.</b> label raw materials and finished products and store them in different storage areas according to safe food practices	2	3	-	-
<b>PC16.</b> follow stock rotation based on FEFO/FIFO	4	6	-	-
<b>NOS Total</b>	<b>35</b>	<b>65</b>	-	-

## Qualification Pack

### National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	FIC/N9001
<b>NOS Name</b>	Ensure food safety, hygiene and sanitation for processing food products
<b>Sector</b>	Food Processing
<b>Sub-Sector</b>	Fruits and Vegetables
<b>Occupation</b>	Generic
<b>NSQF Level</b>	4
<b>Credits</b>	TBD
<b>Version</b>	1.0
<b>Last Reviewed Date</b>	30/09/2021
<b>Next Review Date</b>	30/07/2024
<b>NSQC Clearance Date</b>	30/09/2021

## Assessment Guidelines and Assessment Weightage

### Assessment Guidelines

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Element/ Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each Element/ PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for 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 the Recommended Pass % aggregate for the QP.
7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

## 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
FIC/N0105.Prepare and maintain work area and process machineries for pickle making	35	65	-	-	100	15
FIC/N0106.Prepare for pickle making	35	65	-	-	100	20
FIC/N0107.Pickle making	35	65	-	-	100	25
FIC/N0108.Complete documentation and record keeping related to pickle making	60	40	-	-	100	15
FIC/N9001.Ensure food safety, hygiene and sanitation for processing food products	35	65	-	-	100	25
<b>Total</b>	<b>200</b>	<b>300</b>	<b>-</b>	<b>-</b>	<b>500</b>	<b>100</b>

## Qualification Pack

### Acronyms

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

## Qualification Pack

### Glossary

<b>Sector</b>	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.
<b>Sub-sector</b>	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
<b>Occupation</b>	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
<b>Job role</b>	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
<b>Occupational Standards (OS)</b>	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.
<b>Performance Criteria (PC)</b>	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
<b>National Occupational Standards (NOS)</b>	NOS are occupational standards which apply uniquely in the Indian context.
<b>Qualifications Pack (QP)</b>	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.
<b>Unit Code</b>	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
<b>Unit Title</b>	Unit title gives a clear overall statement about what the incumbent should be able to do.
<b>Description</b>	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.
<b>Scope</b>	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.

## Qualification Pack

<b>Knowledge and Understanding (KU)</b>	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.
<b>Organisational Context</b>	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.
<b>Technical Knowledge</b>	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
<b>Core Skills/ Generic Skills (GS)</b>	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.
<b>Electives</b>	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.
<b>Options</b>	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.