

QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR FOOD PROCESSING

What are Occupational Standards(OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding



Contents

- 1. Introduction and Contacts..... Page 1
- 2. Qualifications Pack...... Page 2
- 3. Glossary of Key Terms Page 3
- 4. OS units......Page 5
 - . Assessment Criteria.....Page 33

Introduction

Qualifications Pack - Plant Biscuit Production Specialist

SECTOR: FOOD PROCESSING

SUB-SECTOR: BREAD AND BAKERY

OCCUPATION: PROCESSING

REFERENCE ID: FIC/Q5003

ALIGNED TO: NCO-2004/NIL

Brief Job Description: A Plant Biscuit Production Specialist produces biscuits in industrial units as per defined SOPs in synchronisation with rest of the plant/unit by weighing, mixing, kneading, rolling/sheeting, cutting, moulding, baking, cooling, etc. either manually or using machineries following the defined SOPs of the plant/ unit.

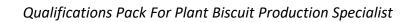
Personal Attributes: A Plant Biscuit Production Specialist must have the ability to plan, organize, prioritize, calculate and handle pressure. S/he must possess reading, writing and communication skills. In addition, the individual must have stamina to be able to stand for long hours, have personal and professional hygiene and an understanding of food safety standards and requirements.

Qualifications Pack For Plant Biscuit Production Specialist



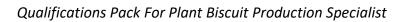
Qualifications Pack Code	FIC/Q5003			
Job Role	Plant Biscuit Production Specialist			
Credits (NSQF)	TBD Version number 1.0			
Sector	Food Processing	Drafted on	23/06/15	
Sub-sector	Bread and bakery	Last reviewed on	04/09/18	
Occupation	Processing	Next review date	30/06/19	

Job Role	Plant Biscuit Production Specialist
Role Description	A Plant Biscuit Production Specialist produces biscuits in industrial units as per defined SOPs in synchronisation with rest of the plant/ unit.
NSQF level	4
Minimum Educational Qualifications	Preferably Class 12
Maximum Educational Qualifications	Not Applicable
Training (Suggested but not mandatory)	 Baking process for all baked products Operating different types of baking machines and equipments GMP HACCP QMS Computer basics and ERP Training in food Safety Standards and Regulations (as per FSSAI) (Mandatory)
Experience	2-3 years experience in a bakery unit
Compulsory: 1. FIC/N5009 Prepare and maintain work area and p machineries for producing biscuits in industrial units 2. FIC/N5010 Prepare for production of biscuits in industrial units 3. FIC/N5011 Produce biscuits in industrial units 4. FIC/N5012 Complete documentation and record k related to production of biscuits in industrial units 5. FIC/N9001 Food safety, hygiene and sanitation fo processing food products	
Performance Criteria	As described in the relevant OS units





Keywords /Terms	Description
Sector	Sector is a conglomeration of different business operations having similar businesses 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.
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through analysis and form the basis of OS.
Job Role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
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 they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance	Performance Criteria are statements that together specify the standard of
Criteria	performance required when carrying out a task.
NOS	NOS are Occupational Standards which apply uniquely in the Indian context.
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
Qualifications Pack	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification 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.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
Organizational Context	Organizational Context includes the way the organization 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 or Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working 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.





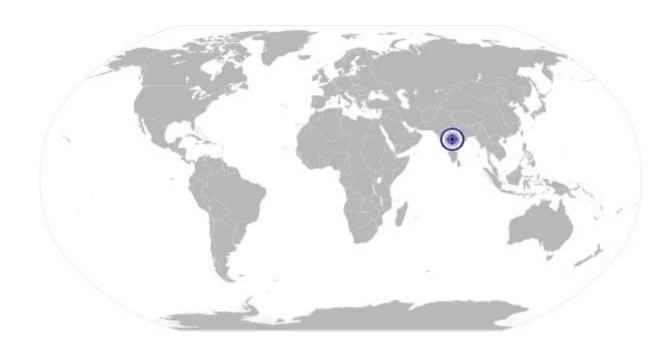
Keywords /Terms	Description
CIP	Clean In Place
СОР	Clean Out Of Place
ERP	Enterprise Resource Planning
FIFO	First In First Out
FEFO	First Expiry First Out
FSSAI	Food Safety and Standards Authority of India
GMP	Good Manufacturing Practices
GHP	Good Hygiene Practices
HACCP	Hazard Analysis and Critical Control Point
NOS	National Occupational Standard
NSQF	National Skill Qualification Framework
NVEQF	National Vocational Educational Qualification Framework
NVQF	National Vocational Qualification Framework
OS	Occupational Standard
PC	Performance Criteria
QP	Qualification Pack
SSC	Sector Skill Council
SOP	Standard Operating Procedure
QMS	Quality Management System





Prepare and maintain work area and process machineries for producing bisuits in industrial units

National Occupational Standard



Overview

This OS unit is about preparing work area for hygiene and safety, and ensuring performance, efficiency and maintenance of process machineries and tools for producing biscuits in industrial units, as per the specifications and standards of the organization.





FIC/N5009 Prepare and maintain work area and process machineries for producing bisuits in industrial units

Unit Code	FIC/N5009
Unit Title(Task)	Prepare and maintain work area and process machineries for producing biscuits in industrial units
Description	Preparing work area for hygiene and safety, and ensuring performance, efficiency and maintenance of process machineries and tools for producing biscuits in industrial units as per the specifications and standards of the organization.
Scope	 This unit/task covers the following: Prepare and maintain work area (for production of biscuits in industrial units) Prepare and maintain process machineries and tools (for production of biscuits in industrial units)
Performance Criteria(F	C) w.r.t. the Scope
Element	Performance Criteria
Prepare and maintain work area (for production of biscuits in industrial units)	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 the work area is safe and hygienic for food processing PC3. dispose waste materials as per defined SOP's and industry requirements
Prepare and maintain process machineries and tools (for production of biscuits in industrial units)	PC4. check the working and performance of all machineries and tools used for production such as proof box, oven, packaging machines, etc. PC5. clean the machineries and tools used with approved sanitizers following specifications and sops PC6. place the necessary tools required for the process PC7. attend minor repairs/ faults of machines, if required
Knowledge and Unders	
A. Organizational Context (Knowledge of the	The user/individual on the job needs to know and understand: KA1. organization standards, process standards and procedures followed in the organization
organization and its processes)	KA2. types of products produced by the organization KA3. code of business conduct KA4. dress code to be followed
	KA5. job responsibilities/duties and standard operating procedures
	KA6. internal processes such as procurement, store management, inventory management, quality management and key contact points for query resolution
	KA7. provision of wages, working hours as per organization policy
B. Technical	KA8. food safety and hygiene standards followed The user/individual on the job needs to know and understand:
Knowledge	KB1. types of chemicals, materials and equipment required for cleaning and maintenance
	KB2. cleaning process to disinfect equipment/ tools
	KB3. supplier/manufacturers instructions related to cleaning and maintenance KB4. knowledge on Food Safety Standards and Regulations (as per FSSAI)
	KB5. knowledge on legal regulations pertaining to work place such as health and safety, recommended dosage for use of sanitizers, control of substances hazardous to health, handling/storage/ disposal/ cautions for use of sanitizers





Prepare and maintain work area and process machineries for producing bisuits in industrial units

	and disinfectants, fire precautions/ occurrences, hygiene practice, disposal of		
	waste, environmental protection, etc.		
Skills (S)			
A. Core Skills/	Writing Skills		
Generic Skills	The user/ individual on the job needs to know and understand how to:		
	SA1. note the information communicated by the supervisor		
	SA2. note the raw materials used for production and the finished products		
	produced		
	SA3. note the readings of the process parameters and provide necessary		
	information to fill the process chart		
	SA4. note down observations (if any) related to the process		
	SA5. write information documents to internal departments/ internal teams		
	SA6. note down the data for ERP or as required by the organization		
	Reading Skills		
	The user/individual on the job needs to know and understand how to:		
	SA7. read and interpret the process required for producing various types of		
	products		
	SA8. read and interpret and process flowchart for all products produced		
	SA9. read equipment manuals and process documents to understand the		
	equipment operation and process requirement SA10. read internal information documents sent by internal teams		
	Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and understand how to:		
	SA11. discuss task lists, schedules and activities with the supervisor		
	SA12. effectively communicate with the team members		
	SA13. question the supervisor in order to understand the nature of the problem and		
	to clarify queries		
	SA14. attentively listen and comprehend the information given by the speaker		
	SA15. communicate clearly with the supervisor and cross department team on the issues faced		
B. Professional Skills			
b. Professional Skills	Decision Making The user /individual on the ich moods to know and understand how to		
	The user/individual on the job needs to know and understand how to: SB1. analyse critical points in day to day tasks through experience and observation		
	and identify control measures to solve the issue		
	SB2. handle issues in case the supervisor is not available (as per the authority		
	matrix defined by the organization)		
	Plan and Organize		
	The user/individual on the job needs to know and understand how to:		
	SB3. plan and organize the work order and jobs received from the supervisor		
	SB4. organize raw materials and packaging materials required for all products		
	following the instruction provided by the supervisor		
	SB5. plan and prioritize the work based on the instructions received from the		
	supervisor		
	SB6. plan to utilise time and equipment's effectively		
	SB7. organize all process/ equipment manuals so as to access information easily		
	SB8. support the supervisor in scheduling tasks for helper(s)		





Prepare and maintain work area and process machineries for producing bisuits in industrial units

Customer Centricity

SB9. understand customer requirements and their priority and respond as per their needs

Problem Solving

The user/individual on the job needs to know and understand how to: SB10. support supervisor in solving problems by detailing out problems SB11. discuss the possible solutions with the supervisor for problem solving

Analytical Thinking

The user/individual on the job needs to know and understand how to:

SB12. apply domain information about maintenance processes and technical knowledge about tools and equipment

Critical Thinking

The user/individual on the job needs to know and understand how to:

SB13. use common sense and make judgments on day to day basis

SB14. use reasoning skills to identify and resolve basic problems

SB15. use intuition to detect any potential problems which could arise during operations

SB16. use acquired knowledge of the process for identifying and handling issues







Prepare and maintain work area and process machineries for producing bisuits in industrial units

NOS Version Control

NOS Code	FIC/N5009		
Credits (NSQF)	TBD	Version number	1.0
Industry	Food Processing	Drafted on	23/06/15
Industry Sub-sector	Bread and bakery	Last reviewed on	04/09/18
Occupation	Processing	Next review date	30/06/19



Prepare for production of biscuits in industrial units





N·S·D·C
National
Skill Development
Corporation

National Occupational Standard



Overview

This OS unit is about preparation for production of biscuits in industrial units, through planning of raw material and ingredients, machinery utilization and manpower requirement.





Prepare for production of biscuits in industrial units

Unit Code	FIC/N5010	
Unit Title(Task)	Prepare for production of biscuits in industrial units	
Description	This unit is about preparation for production of biscuits in industrial units through planning of raw material and ingredients, machinery utilization and manpower requirement.	
Scope	 The scope of this role will include: Plan for production (for biscuits in industrial units) Plan equipment utilization and manpower (for production of biscuits in industrial units) Organize and check equipments and raw material for carrying out production (for biscuits in industrial units) 	
Performance Criteria(P	PC) w.r.t. the Scope	
Element	Performance Criteria	
Plan for production(for biscuits in industrial units)	PC1. read and understand the production order from the supervisor PC2. check the availability of raw materials and ingredients such as flour, sugar, shortenings, additives, preservatives, etc., packaging materials, working of machineries and availability of manpower PC3. calculate total weight of dough required for order quantity (considering process loss) PC4. plan production sequence by: • grouping similar type of products (hard and soft biscuits) • grouping similar type of dough (hard and soft dough) • grouping products that require similar process and process parameters • grouping products that require same processing machineries • planning maximum capacity utilization of machineries • avoiding clean-in-place (CIP) after each type of product • planning efficient utilization of resources/manpower • prioritizing urgent orders	
Plan equipment utilization and manpower (for production of biscuits in industrial units)	 PC5. ensure the working and performance of each equipment required for the process PC6. calculate the process time for each batch for effective utilization of machineries PC7. plan batch size considering full capacity utilization of machineries PC8. allot responsibilities/ work to the assistants and helpers 	
Organize and check equipments and raw material for carrying out production (for biscuits in industrial units)	PC9. refer to the process chart/ product flow chart/formulation chart for product(s) produced PC10. weigh the raw materials and ingredients required for the batch PC11. check the conformance of raw material quality to organization standards by verifying the quality analysis report from the supplier/ internal lab and by checking the physical parameters like appearance, colour, aroma, texture etc.	





FIC/N5010 Prepare for production of biscuits in industrial units

·	
	PC12. organize the equipments as per the process requirement
	PC13. change dies, moulds, etc. and other parts of machineries to prepare for
	production
	PC14. start machine and check the working and performance of the machine
	PC15. make minor adjustments or repairs (if required)
	PC16. keep the tools accessible to attend repairs/faults in case of breakdown
Knowledge and Unders	standing (K)
B. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. organization standards, process standards and procedures followed in the
(Knowledge of the	organization
organization and	KA2. types of products produced by the organization
its processes)	KA3. code of business conduct
	KA4. dress code to be followed
	KA5. job responsibilities/duties and standard operating procedures
	KA6. internal processes such as procurement, store management, inventory
	management, quality management and key contact points for query
	resolution
	KA7. provision of wages, working hours as per organization policy
	KA8. food safety and hygiene standards followed
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. types of raw materials, ingredients used in bakery
	KB2. types of raw materials, ingredients, additives, etc. used for production of various types of biscuits
	KB3. types of dough for making biscuits
	KB4. methods for preparing various types of dough for biscuit making
	KB5. process and process parameters for baking various types of biscuits
	KB6. varieties of biscuits obtained from each type of dough
	KB7. types of machineries used for making biscuits
	KB8. types of machineries used in the baking units and machineries used in the
	organization
	KB9. maintenance of baking equipments
	KB10. supplier/manufacturer's instructions for all baking machineries and
	equipments
	KB11. basic mathematics to calculate raw material required for obtaining specified
	quantity of finished product
	KB12. quality parameters and quality assessment based on physical parameters KB13. food safety and hygiene
	KB13. 100d safety and riggiene KB14. good manufacturing practice (GMP)
	KB15. hazard analysis and critical control point (HACCP)
Skills (S)	
Core Skills/ Generic	Writing Skills
Skills	The user/ individual on the job needs to know and understand how to:
	SA1. note the information communicated by the supervisor
	SA2. note the raw materials used for production and the finished products
	produced
	SA3. note the readings of the process parameters and provide necessary
	information to fill the process chart





FIC/N5010 Prepare for production of biscuits in industrial units

- SA4. note down observations (if any) related to the process SA5. write information documents to internal departments/ internal teams SA6. note down the data for ERP or as required by the organization **Reading Skills** The user/individual on the job needs to know and understand how to:
 - SA7. read and interpret the process required for producing various types of
 - products
 - SA8. read and interpret and process flowchart for all products produced
 - SA9. read equipment manuals and process documents to understand the equipment operation and process requirement
 - SA10. read internal information documents sent by internal teams

Oral Communication (Listening and Speaking skills)

The user/individual on the job needs to know and understand how to:

- SA11. discuss task lists, schedules and activities with the supervisor
- SA12. effectively communicate with the team members
- SA13. question the supervisor in order to understand the nature of the problem and to clarify queries
- SA14. attentively listen and comprehend the information given by the speaker
- SA15. communicate clearly with the supervisor and cross department team on the issues faced

B. Professional Skills Decision Making

The user/individual on the job needs to know and understand how to:

- SB1. analyse critical points in day to day tasks through experience and observation and identify control measures to solve the issue
- SB2. handle issues in case the supervisor is not available (as per the authority matrix defined by the organization)

Plan and Organize

The user/individual on the job needs to know and understand how to:

- SB3. plan and organize the work order and jobs received from the supervisor
- SB4. organize raw materials and packaging materials required for all products following the instruction provided by the supervisor
- SB5. plan and prioritize the work based on the instructions received from the supervisor
- SB6. plan to utilise time and equipment's effectively
- SB7. organize all process/ equipment manuals so as to access information easily
- SB8. support the supervisor in scheduling tasks for helper(s)

Customer Centricity

SB9. understand customer requirements and their priority and respond as per their needs

Problem Solving

The user/individual on the job needs to know and understand how to: SB10. support supervisor in solving problems by detailing out problems

SB11. discuss the possible solutions with the supervisor for problem solving

Analytical Thinking

The user/individual on the job needs to know and understand how to:





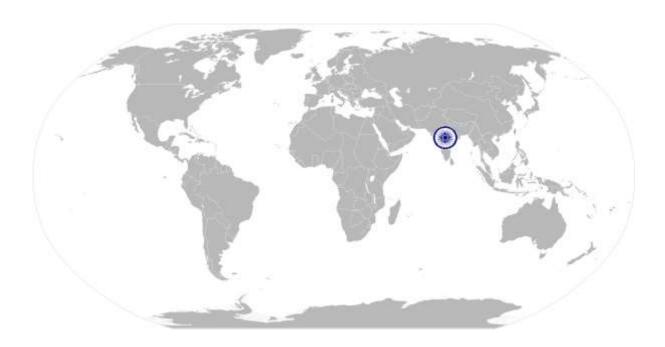
Prepare for production of biscuits in industrial units

SB12. apply domain information about maintenance processes and technical knowledge about tools and equipment

Critical Thinking

The user/individual on the job needs to know and understand how to:

- SB13. use common sense and make judgments on day to day basis
- SB14. use reasoning skills to identify and resolve basic problems
- SB15. use intuition to detect any potential problems which could arise during operations
- SB16. use acquired knowledge of the process for identifying and handling issues





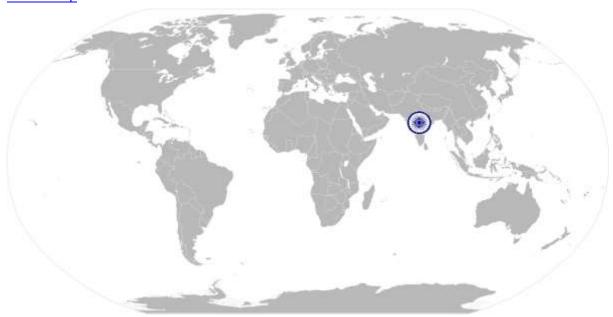


Prepare for production of biscuits in industrial units

NOS Version Control

NOS Code	FIC/N5010		
Credits (NSQF)	TBD	Version number	1.0
Industry	Food Processing	Drafted on	23/06/15
Industry Sub-sector	Bread and bakery	Last reviewed on	04/09/18
Occupation	Processing	Next review date	30/06/19

Back to Top



Produce biscuits in industrial units

National Occupational Standard



Overview

This OS unit is about producing biscuits in industrial units as per the defined SOPs of the organization.





Produce biscuits in industrial units

Unit Code	FIC/N5011
Unit Title(Task)	Produce biscuits in industrial units
Description	This OS unit is about producing biscuits in industrial units as per the defined SOPs of the organization.
Scope	 The scope of this role will include: Organize raw materials Mix Ingredients Laminate and mould dough Bake biscuits Prepare centre filled/sandwich biscuits Post process cleaning and regular maintenance of equipments
Performance Criteria(F	PC) w.r.t. the Scope
Element	Performance Criteria
Organize raw materials	 PC1. refer to the work order and formulation and organize all the ingredients required for the order PC2. check the quality of each ingredient through physical parameters such as appearance, colour, odour, texture, etc. for its conformance to organization standards PC3. weigh and measure all ingredients such as flour, fat, water, sugar, additives, flavours, spices, etc. required for product/batch and sift the ingredients manually (in manually operated unit) PC4. set and control metering devices that weigh, measure, sift, and convey each approved ingredients into the mixing machine for each ingredients such as flour, fat, water, sugar, additives, approved flavours and colours spices etc required for the product (in mechanized unit) PC5. check the scale indicators to confirm if specified amount of ingredients have been added
Mix Ingredients	 PC6. mix all the ingredients manually to desired consistency PC7. transfer all the ingredients together or sequentially into the mixer depending on the method followed by the organization PC8. set the mixer speed, time and temperature depending on the mixing processes followed by the organization and start the mixer to mix and knead the ingredients to make hard/ soft dough for biscuits PC9. control the mixing time and mixing temperature which are critical for making hard/soft dough for biscuits PC10. check the dough consistency periodically until achieving dough of desired consistency PC11. ferment the dough, if required
Laminate and mould dough	PC12. feed the hard dough into the layering or forming machines or dough feeder as required PC13. ensure the correct forming and moulding of the dough PC14. set the controls of each sheeting roller of the laminator machine to produce continuous sheet of hard dough as per specifications and standards (for hard
	dough) PC15. set the required moulding roller/ cutter/ die





FIC/N5011 Produce biscuits in industrial units

	PC16. set the controls of rotary cutter machine to cut the sheet of hard dough to desired size, shape and design as per specifications and standards of the organization
	PC17. set the controls of the conveyors to separate the cut hard dough and control
	scrap return
	PC18. control operation of the sprinkler
	PC19. set the controls of rotary cutter machine and start machine to mould soft
	dough to desired size, shape, weight and thickness as per specifications and
	standards of the organization (for soft dough)
	PC20. ensure correct transfer of dough pieces to the oven band
Bake biscuits	PC21. pre-heat the oven and set the oven parameters such as baking temperature and baking time (batch process), load the filled pans /moulds in the oven and bake the dough monitoring oven parameters during baking process
	PC22. set and maintain the speed of the panning conveyor to control the
	shaped/moulded dough entering the tunnel oven (continuous process)
	PC23. set the oven parameters such as temperature, time, conveyor speed, etc. and
	monitor the oven parameters during baking process
	PC24. observe baking of biscuits through the observation window of the tunnel
	oven PC25. observe quality of baked biscuit coming out of oven through parameters such
	as color, aroma, texture, etc. to detect over baking /under baking and control
	oven parameters to achieve finished product of uniform quality
	PC26. remove non-conforming products from the conveyor
	PC27. check the quality of the finished products through physical parameters such
	as colour, size, appearance, texture, aroma, taste, etc. and compare against standard
	PC28. set, control and maintain speed of the cooling conveyor to cool the biscuit
Prepare centre	PC29. weigh the ingredients such as fat, sugar, chocolate, flavour, etc. required for
filled/sandwich	preparing the cream/centre filling material for soft dough biscuits
biscuits	PC30. transfer the ingredients into the mixer, set and adjust controls and start
	mixer to mix cream ingredients
	PC31. transfer cream into the cream feed and set controls of metering devices of
	cream feed on the sandwiching machine
	PC32. set controls of the sandwiching machine to fill measured quantity of cream on
	soft dough biscuit, position and place another soft dough biscuit over cream
	filled biscuit, press the biscuits and maintain the thickness of the cream
	biscuit
	PC33. check the quality of the finished products through physical parameters such
	as colour, size, appearance, texture, aroma, taste etc. and compare against standard
	PC34. remove non-conforming products from the conveyor
	PC35. report discrepancies/concerns in each stage of production to department
	supervisor for immediate action





FIC/N5011 Produce biscuits in industrial units

Post process cleaning	PC36. clean the work area, machineries, equipment and tools using recommended			
and regular	cleaning agents and sanitizers			
maintenance of	PC37. attend minor repairs/faults of all machines (if any)			
equipments	PC38. 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 Under	standing (K)			
C. Organizational	The user/individual on the job needs to know and understand:			
Context	KA1. organization standards, process standards and procedures followed in the			
(Knowledge of the	organization			
organization and	KA2. types of products produced by the organization			
its processes)	KA3. code of business conduct			
,	KA4. dress code to be followed			
	KA5. job responsibilities/duties and standard operating procedures			
	KA6. internal processes such as procurement, store management, inventory			
	management, quality management and key contact points for query			
	resolution			
	KA7. provision of wages, working hours as per organization policy			
	KA8. food safety and hygiene standards followed			
B. Technical	The user/individual on the job needs to know and understand:			
Knowledge	KB1. types of raw materials, ingredients used in bakery			
Kilowicuge	KB2. types of raw materials, ingredients, additives etc used for production of various			
	types of biscuits			
	KB3. types of dough in bakery for preparing various types of biscuits			
	KB4. methods for preparing various types of dough			
	KB5. process parameters to prepare various types of dough			
	KB6. types of ingredients required for preparing different type of dough			
	KB7. types of biscuit products obtained from each type of dough			
	KB8. process and process parameters for preparing various types of biscuits			
	KB9. types of machineries used for making dough and in the baking process			
	KB10. types of machineries used in the baking units and machineries used in the			
	organization			
	KB11. maintenance of baking equipments			
	KB12. supplier/manufacturer's instructions for all baking machineries and			
	equipments			
	KB13. basic mathematics to calculate raw material required for obtaining specified			
	quantity of finished product			
	KB14. quality parameters and quality assessment based on physical parameters			
	KB15. food safety and hygiene			
	KB15. 1000 safety and hygiene KB16. good manufacturing practice (gmp)			
Skills (S)	KB17. hazard analysis and critical control point (haccp)			
B. Core Skills/	Writing Skills			
Generic Skills				
Generic Skills	The user/ individual on the job needs to know and understand how to:			
	SA1. note the information communicated by the supervisor			
	SA2. note the raw materials used for production and the finished products			
	produced			





Produce biscuits in industrial units

FIC/N5011	Produce discuits in industrial units				
	SA3. note the readings of the process parameters and provide necessary information to fill the process chart SA4. note down observations (if any) related to the process SA5. write information documents to internal departments/ internal teams SA6. note down the data for ERP or as required by the organization				
	Reading Skills				
	The user/individual on the job needs to know and understand how to: SA7. read and interpret the process required for producing various types of products				
	SA8. read and interpret and process flowchart for all products produced				
	SA9. read equipment manuals and process documents to understand the				
	equipment operation and process requirement				
	SA10. read internal information documents sent by internal teams				
	Oral Communication (Listening and Speaking skills)				
	The user/individual on the job needs to know and understand how to :				
	SA11. discuss task lists, schedules and activities with the supervisor				
	SA12. effectively communicate with the team members				
	SA13. question the supervisor in order to understand the nature of the problem and				
	to clarify queries SA14. attentively listen and comprehend the information given by the speaker				
	The state of the s				
	5. communicate clearly with the supervisor and cross department team on the issues faced				
B. Professional Skills					
	The user/individual on the job needs to know and understand how to:				
	SB1. analyse critical points in day to day tasks through experience and observation				
	and identify control measures to solve the issue				
	SB2. handle issues in case the supervisor is not available (as per the authority matrix				
	defined by the organization)				
	Plan and Organize				
	The user/individual on the job needs to know and understand how to:				
	SB3. plan and organize the work order and jobs received from the supervisor				
	SB4. organize raw materials and packaging materials required for all products following the instruction provided by the supervisor				
	SB5. plan and prioritize the work based on the instructions received from the				
	supervisor				
	SB6. plan to utilise time and equipment's effectively				
	SB7. organize all process/ equipment manuals so as to access information easily				
	SB8. support the supervisor in scheduling tasks for helper(s)				
	Customer Centricity				
	The user/individual on the job needs to know and understand how to:				
	SB9. understand customer requirements and their priority and respond as per their				
	needs				
	Problem Solving				

The user/individual on the job needs to know and understand how to: SB10. support supervisor in solving problems by detailing out problems

SB11. discuss the possible solutions with the supervisor for problem solving

Analytical Thinking

The user/individual on the job needs to know and understand how to:





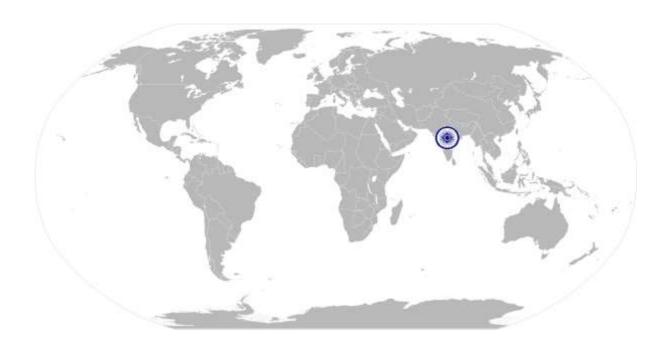
Produce biscuits in industrial units

SB12. apply domain information about maintenance processes and technical knowledge about tools and equipment

Critical Thinking

The user/individual on the job needs to know and understand how to:

- SB13. use common sense and make judgments on day to day basis
- SB14. use reasoning skills to identify and resolve basic problems
- SB15. use intuition to detect any potential problems which could arise during operations
- SB16. use acquired knowledge of the process for identifying and handling issues





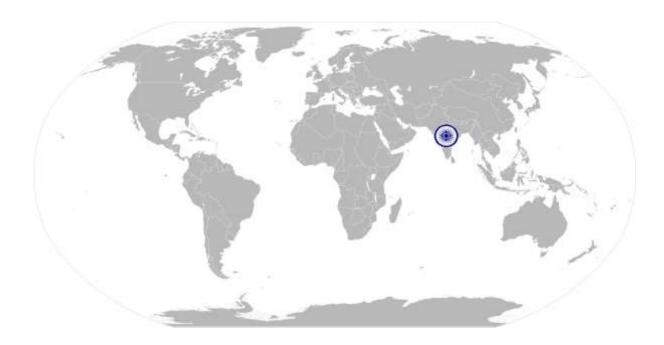


Produce biscuits in industrial units

NOS Version Control

NOS Code	FIC/N5011		
Credits (NSQF)	TBD	Version number	1.0
Industry	Food Processing	Drafted on	23/06/15
Industry Sub-sector	Bread and bakery	Last reviewed on	04/09/18
Occupation	Processing	Next review date	30/06/19

Back to Top

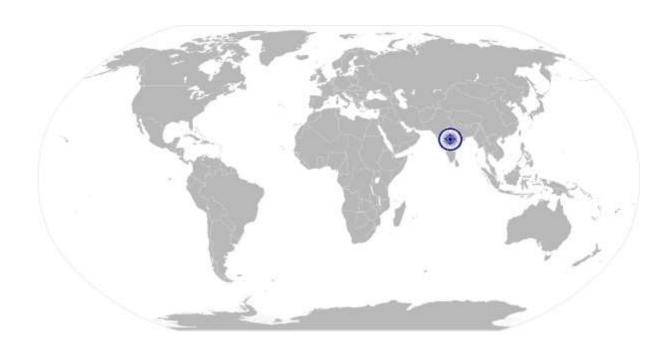






Complete documentation and record keeping related to production of biscuits in industrial units

National Occupational Standard



Overview

This OS unit is about documenting and maintaining records of raw materials, process and finished products related to production of biscuits in industrial units.





FIC/N5012 Complete documentation and record keeping related to production of biscuits in industrial units

Unit Code	FIC/N5012			
Unit Title(Task)	Complete documentation and record keeping related to production of biscuits in industrial units			
Description	This OS unit is about documenting and maintaining records of raw materials, process and finished products related to production of biscuits in industrial units.			
Scope	 This unit/task covers the following: Document and maintain record of raw material (for production of biscuits in industrial units) Document and maintain record of production schedule and process parameters (for production of biscuits in industrial units) Document and maintain record of finished products (for production of biscuits in industrial units) 			
Performance Criteria(P	C) w.r.t. the Scope			
Element	Performance Criteria			
Document and maintain record of raw material (for production of biscuits in industrial units)	PC1. document and maintain record of all raw materials used for making biscuits such as name of raw materials, supplier details, batch number, receiving date/ date of manufacture, expiry date, supplier quality document, quality parameters of all raw materials, internal quality analysis report, etc. as per organziational standards PC2. maintain record of observations (If any) related to raw 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 audit			
Document and maintain record of production schedule and process parameters (for production of biscuits in industrial units)	PC5. document and maintain record of production details such as the product produced, production sequence, equipments and machinery details, efficiency and capacity utilization of equipment PC6. document and maintain record of process details such as type of raw material used, type of dough, process parameters (temperature, time, etc.) for entire process in process chart or production log for all products produced PC7. document and maintain record of batch size, raw material used, yield after each stage of process, wastage, energy utilization and final products produced PC8. maintain record of observations (if any) or deviations related to production and process parameters 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 record of finished products (for production of biscuits in industrial units)	PC11. document and maintain record of finished products details such as type of products produced, quantity produced per batch, quantity produced in each type of product, batch number, time of packing, date of manufacture, date of expiry, other label details, primary ,secondary and tertiary packaging materials for all finished products, storage conditions, etc. as per organizational standards			





FIC/N5012 Complete documentation and record keeping related to production of biscuits in industrial units

	PC12. maintain record of observations or deviations (if any) related to finished			
	products			
	PC13. load the details of finished products in ERP for future reference			
	PC14. verify the documents and track from finished product to raw materials, in			
	case of quality concerns and for quality management system audits			
Knowledge and Unders	standing (K)			
D. Organizational	The user/individual on the job needs to know and understand:			
Context	KA1. organization standards, process standards and procedures followed in the			
(Knowledge of the	organization			
organization and	KA2. types of products produced by the organization			
its processes)	KA3. code of business conduct			
	KA4. dress code to be followed			
	KA5. job responsibilities/duties and standard operating procedures			
	KA6. internal processes such as procurement, store management, inventory			
	management, quality management and key contact points for query			
	resolution			
	KA7. provision of wages, working hours as per organization policy			
	KA8. food safety and hygiene standards followed			
B. Technical	The user/individual on the job needs to know and understand:			
Knowledge	KB1. documentation system followed in the organization such as production chart,			
	process chart and finished products chart			
	KB2. details of raw materials and finished products to be recorded			
	KB3. details of production and process parameters to be recorded and maintained			
	KB4. methods to document and maintain records of observations (if any) related			
	to raw materials, process and finished products			
	KB5. methods to track back the record from finished product to raw material			
	KB6. basic computer knowledge			
	KB7. entering the details in erp system followed by the organization			
Skills (S)				
C. Core Skills/	Writing Skills			
Generic Skills	The user/individual on the job needs to know and understand how to:			
	SA1. note the information communicated by the supervisor			
	SA2. note the raw materials used for production and the finished products			
	produced			
	SA3. note the readings of the process parameters and provide necessary			
	information to fill the process chart			
	SA4. note down observations (if any) related to the process			
	SA5. write information documents to internal departments/ internal teams			
	SA6. note down the data for ERP or as required by the organization			
	Reading Skills			
	The user/individual on the job needs to know and understand how to:			
	SA7. read and interpret the process required for producing various types of			
	products			
	SA8. read and interpret and process flowchart for all products produced			
	SA9. read equipment manuals and process documents to understand the			
	equipment operation and process requirement			
	SA10. read internal information documents sent by internal teams			





FIC/N5012 Complete documentation and record keeping related to production of biscuits in industrial units

	Oral Communication (Listening and Speaking skills)			
	The user/individual on the job needs to know and understand how to :			
	SA11. discuss task lists, schedules and activities with the supervisor			
	SA12. effectively communicate with the team members			
	SA13. question the supervisor in order to understand the nature of the problem and			
	to clarify queries			
	SA14. attentively listen and comprehend the information given by the speaker			
	SA15. communicate clearly with the supervisor and cross department team on the			
	issues faced			
B. Professional Skills	Decision Making			
	The user/individual on the job needs to know and understand how to:			
	SB1. analyse critical points in day to day tasks through experience and observation			
	and identify control measures to solve the issue			
	SB2. handle issues in case the supervisor is not available (as per the authority			
	matrix defined by the organization)			
	Plan and Organize			
	The user/individual on the job needs to know and understand how to:			
	SB3. plan and organize the work order and jobs received from the supervisor			
	SB4. organize raw materials and packaging materials required for all products			
	following the instruction provided by the supervisor			
	SB5. plan and prioritize the work based on the instructions received from the			
	supervisor SP6 plan to utilize time and equipment's effectively.			
	SB6. plan to utilise time and equipment's effectively			
	SB7. organize all process/ equipment manuals so as to access information easily			
	SB8. support the supervisor in scheduling tasks for helper(s)			
	Customer Centricity			
	The user/individual on the job needs to know and understand how to:			
	SB9. understand customer requirements and their priority and respond as per their			
	needs			
	Problem Solving			
	The user/individual on the job needs to know and understand how to:			
	SB10. support supervisor in solving problems by detailing out problems			
	SB11. discuss the possible solutions with the supervisor for problem solving			
	Analytical Thinking			
	The user/individual on the job needs to know and understand how to:			
	SB12. apply domain information about maintenance processes and technical			
	knowledge about tools and equipment			
	Critical Thinking			
	The user/individual on the job needs to know and understand how to:			
	SB13. use common sense and make judgments on day to day basis			
	SB14. use reasoning skills to identify and resolve basic problems			
	SB15. use intuition to detect any potential problems which could arise during operations			
	SB16. use acquired knowledge of the process for identifying and handling issues			
	1 3D10. use acquired knowledge of the process for identifying and fianding issues			



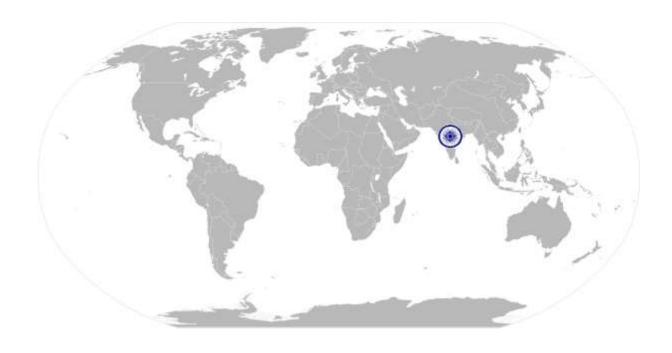


Complete documentation and record keeping related to production of biscuits in industrial units

NOS Version Control

NOS Code	FIC/N5012		
Credits (NSQF)	TBD	Version number	1.0
Industry	Food Processing	Drafted on	23/06/15
Industry Sub-sector	Bread and bakery	Last reviewed on	04/09/18
Occupation	Processing	Next review date	30/06/19

Back to Top





National Occupational Standard



Overview

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





Unit Code	FIC/N9001			
Unit Title(Task)	Food safety, hygiene and sanitation for processing food products			
Description	This OS unit is about maintaining food safety, hygiene and sanitation in work area and processing unit for processing food products			
Scope	The scope of this role will include: Perform safety and sanitation related functions (for processing food products) Apply food safety practices (for processing food products)			
Performance Criteria	(PC) w.r.t. the Scope			
Element	Performance Criteria			
Perform safety and sanitation related functions (for processing food products)	 PC1. comply with food safety and hygiene procedures followed in the organization PC2. ensure personal hygiene by using 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, first aid kit and eye-wash station when required PC7. follow housekeeping practices by having designated area for materials/tools PC8. follow industry standards such as GMP and 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 audits 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)	PC13. determine the quality of food using criteria such as aroma, appearance, taste and best before date, and take immediate measures to prevent spolage PC14. store raw materials, finished products, allergens separately to prevent cross-contamination PC15. label raw materials and finished products and store them in designated storage areas according to safe food practices			





	PC16. follow stock rotation based on FEFO/ FIFO		
Knowledge and Under	standing (K)		
E. Organizational	The user/individual on the job needs to know and understand:		
Context	KA1. organization standards, process standards and procedures followed in the		
(Knowledge of the	organization		
organization and	KA2. types of products produced by the organization		
its processes)	KA3. code of business conduct		
	KA4. dress code to be followed		
	KAS. job responsibilities/duties and standard operating procedures		
	KA6. internal processes such as procurement, store management, inventory		
	management, quality management and key contact points for query resolution		
	KA7. provision of wages, working hours as per organization policy		
	KA8. food safety and hygiene standards followed		
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KB1. possible physical, chemical and biological hazards and methods of prevention		
Ü	of various hazards		
	KB2. personal hygiene requirement		
	KB3. different types of sanitizers used for process area, equipment and the		
	procedure to use them		
	KB4. knowledge on Food Safety Standards and Regulations (as per FSSAI)		
	KB5. quality parameters and quality assessment based on physical parameters,		
	basic food microbiology		
	KB6. labelling/marking requirements for raw materials, finished goods, stored		
	materials, packaging materials and their designated storage area		
	KB7. cleaning and sanitation of equipment and work area		
	KB8. CIP and COP methods and procedures		
	KB9. storage norms for raw materials, packaging material and finished products		
	KB10. stock rotation of ingredients and finished products based on FEFO/FIFO KB11. method of maintaining safety check lists for all machineries		
	KB11. Thethou of maintaining safety theth lists for all machineries KB12. GHP		
	KB13.GMP		
	KB14.HACCP		
Skills (S)	NET TO NO.		
D. Core Skills/	Writing Skills		
Generic Skills	The user/ individual on the job needs to know and understand how to:		
	SA1. note the information communicated by the supervisor		
	SA2. note the raw materials used for production and the finished products		
	produced		
	SA3. note the readings of the process parameters and provide necessary		
	information to fill the process chart		
	SA4. note down observations (if any) related to the process		





	SA5. write information documents to internal departments/ internal teams				
	SA6. note down the data for ERP or as required by the organization				
	Reading Skills				
	The user/individual on the job needs to know and understand how to:				
	SA7. read and interpret the process required for producing various types of				
	products				
	SA8. read and interpret and process flowchart for all products produced				
	SA9. read equipment manuals and process documents to understand the				
	equipment operation and process requirement				
	SA10. read internal information documents sent by internal teams Oral Communication (Listening and Speaking skills)				
	The user/individual on the job needs to know and understand how to:				
	SA11. discuss task lists, schedules and activities with the supervisor				
	SA12. effectively communicate with the team members				
	SA13. question the supervisor in order to understand the nature of the problem and				
	to clarify queries				
	SA14. attentively listen and comprehend the information given by the speaker				
	SA15. communicate clearly with the supervisor and cross department team on the				
D D C : 101:11	issues faced				
B. Professional Skills	Decision Making				
	The user/individual on the job needs to know and understand how to:				
	SB1. analyse critical points in day to day tasks through experience and observation				
	and identify control measures to solve the issue				
	SB2. handle issues in case the supervisor is not available (as per the authority matrix defined by the organization)				
	Plan and Organize				
	The user/individual on the job needs to know and understand how to:				
	· · · · · · · · · · · · · · · · · · ·				
	SB3. plan and organize the work order and jobs received from the supervisor				
	SB4. organize raw materials and packaging materials required for all products following the instruction provided by the supervisor				
	SB5. plan and prioritize the work based on the instructions received from the				
	supervisor				
	SB6. plan to utilise time and equipment's effectively				
	SB7. organize all process/ equipment manuals so as to access information easily				
	SB8. support the supervisor in scheduling tasks for helper(s)				
	Customer Centricity				
	The user/individual on the job needs to know and understand how to:				
	SB9. understand customer requirements and their priority and respond as per their				
	needs				
	Problem Solving				
	The user/individual on the job needs to know and understand how to:				
	SB10. support supervisor in solving problems by detailing out problems				
	SB11. discuss the possible solutions with the supervisor for problem solving				
	Analytical Thinking				
	The user/individual on the job needs to know and understand how to:				
	The deer, marriadar on the job freeds to know and anderstand now to:				





SB12. apply domain information about maintenance processes and technical knowledge about tools and equipment
Critical Thinking
The user/individual on the job needs to know and understand how to:
SB13. use common sense and make judgments on day to day basis
SB14. use reasoning skills to identify and resolve basic problems
SB15. use intuition to detect any potential problems which could arise during
operations
SB16. use acquired knowledge of the process for identifying and handling issues





NOS Version Control

NOS Code	FIC/N9001		
Credits (NSQF)	TBD	Version number	1.0
Industry	Food Processing	Drafted on	23/06/15
Industry Sub-sector	Bread and bakery	Last reviewed on	04/09/18
Occupation	Processing	Next review date	30/06/19

Back to Top



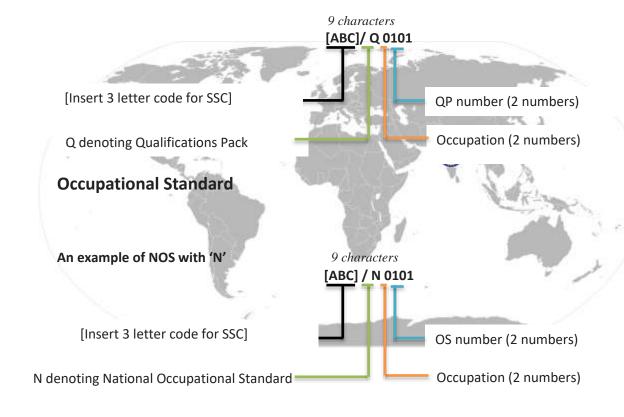


Qualifications Pack for Plant Biscuit Production Specialist

Annexure

Nomenclature for QP and NOS

Qualifications Pack



Back to top...





Qualifications Pack for Plant Biscuit Production Specialist

The following acronyms/codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers
Fruit and Vegetable	01 – 09
Food Grain Milling (including Oilseeds)	10 - 19
Dairy products	20 - 30
Meat and Poultry	30 – 40
Fish and Sea Food	40 - 49
Bread and Bakery	50 - 59
Alcoholic Beverages	60 - 69
Aerated water/ soft drinks	60 - 69
Quality Analysis (involving physical and chemical lab analysis)	76 – 79
Packaging, Refrigeration and Procurement	70 – 75
Miscellaneous	80 – 84
Packaged Foods	85 - 90
Soya Food Processing	90 - 95

Sequence	Description	Example
Three letters	Industry name	FIC
Slash	/	/
Next letter	Whether QP or NOS	Q or N
Next two numbers	Occupation code	01
Next two numbers	OS number	01

Note:

• The range of occupation numbers have been decided based on the number of existing and future occupations in a segment





CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role Plant Biscuit Production Specialist

Qualification Pack FIC/Q5003

Sector Skill Council Food Processing

Guidelines for Assessment

- 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 proportion of marks for Theory and Skills Practical for each 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, as well as the selected elective NOS/set of NOS. OR
- 4. Assessment will be conducted for all compulsory NOS, as well as the selected optional NOS/set of NOS.
- 5. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
- 6. Individual assessment agencies will create unique evaulations for skill practical for every student at each examination/training center based on this criteria
- 7. To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.
- 8. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack

			Marks Allocation			
			Total Marks	Out Of	Theory	Skills Practical
1. FIC/N5009 (Prepare and maintain work area and process machineries for producing biscuits in industrial units)	PC1.	Clean and maintain the cleanliness of the work area using approved sanitizers and keep it free from dust, waste, flies and pests		25	10	15
	PC2.	Ensure that the work area is safe and hygienic for food processing	100	10	3	7
	PC3.	Dispose waste materials as per defined SOPs and industry requirements		15	5	10
	PC4.	Check the working and performance of all machineries and tools used for production such		15	5	10





		Assessment crite	110			
		as proof box, oven, packaging machines, etc.				
	PC5.	Clean the machineries and tools used with recommended sanitizers following specifications and SOPs		15	5	10
	PC6.	Place the necessary tools required for the process		5	2	3
	PC7.	Attend minor repairs/ faults of machines, if required		15	5	10
				100	35	65
2.FIC/N5010 (Prepare for production of biscuits in industrial units)	PC1.	Read and understand the production order from the supervisor		5	1	4
	PC2.	Check the availability of raw materials and ingredients such as flour, sugar, shortenings, additives, preservatives, etc., packaging materials, working of machineries and availability of manpower		5	2	3
	PC3.	Calculate total weight of dough required for order quantity (considering process loss)	100	5	1	4
	PC4.	 Plan production sequence by: grouping similar type of products (hard and soft biscuits) grouping similar type of dough (hard and soft dough) grouping products that require similar process and process parameters grouping products that require same 		15	5	10





	Assessment crite	'iu			
	processing				
	machineries				
	 planning maximum 				
	capacity utilization of				
	machineries				
	 avoiding clean-in- 				
	place (CIP) after each				
	type of product				
	 planning efficient 				
	utilization of				
	resources/manpower				
	 prioritizing urgent 				
	orders				
PC5.	Ensure the working and				
	performance of each		_		
	equipment required for		7	2.5	4.5
	the process				
PC6.	Calculate the process				
	time for each batch for		_	_	_
	effective utilization of		7	3	4
	machineries				
PC7.	Plan batch size				
	considering full capacity				
	utilization of		3	1.5	1.5
	machineries				
PC8.	Allot responsibilities/				
	work to the assistants		7	2	5
	and helpers		,	2	3
PC9.	Pofor to the process				
FCJ.	Refer to the process chart/ product flow				
	chart/formulation chart		5	2	3
	for product(s) produced				
DC10	Woigh the row motorials				
PC10.	Weigh the raw materials and ingredients required				
	for the batch		5	2	3
PC11.	Check the conformance				
	of raw material quality to organization standards				
	by verifying the quality				
	analysis report from the				
	supplier/ internal lab and		5	1	4
	by checking the physical				
	parameters like				
	appearance, colour, aroma, texture etc.				
	aroma, texture etc.				
		<u> </u>			





		A33C33IIICIII CIIIC	1			
	PC12.	Organize the equipments as per the process requirement		3	1	2
	PC13.	Change dies, moulds, etc. and other parts of machineries to prepare for production		10	3	7
	PC14.	Start machine and check the working and performance of the machine		5	2	3
	PC15.	Make minor adjustments or repairs (if required)		10	5	5
	PC16.	Keep the tools accessible to attend repairs/faults in case of breakdown		3	1	2
	1			100	35	65
3. FIC/N5011 (Produce biscuits in industrial units)	PC1.	Refer to the work order and formulation and organize all the ingredients required for the order		2	1	1
	PC2.	Check the quality of each ingredient through physical parameters such as appearance, colour, odour, texture, etc. For its conformance to organization standards		2	1	1
	PC3.	Weigh and measure all ingredients such as flour, fat, water, sugar, additives, flavours, spices, etc. Required for product/batch and sift the ingredients manually (in manually operated unit)	100	2	1	1
	PC4.	Set and control metering devices that weigh, measure, sift, and convey each approved ingredients into the mixing machine for each ingredients such as flour, fat, water, sugar, additives, approved flavours and colours		5	2	3





	Assessment crite	ria			
	spices etc required for the product (in mechanized unit)				
PC5.	Check the scale indicators to confirm if specified amount of ingredients have been added		3	1	2
PC6.	Mix all the ingredients manually to desired consistency		1	0.5	0.5
PC7.	Transfer all the ingredients together or sequentially into the mixer depending on the method followed by the organization		2	0.5	1.5
PC8.	Set the mixer speed, time and temperature depending on the mixing processes followed by the organization and start the mixer to mix and knead the ingredients to make hard/ soft dough for biscuits		2	0.5	1.5
PC9.	Control the mixing time and mixing temperature which are critical for making hard/soft dough for biscuits		2	0.5	1.5
PC10	. Check the dough consistency periodically until achieving dough of desired consistency		2	0.5	1.5
PC1:	Ferment the dough if required		3	1	2
PC12	 Feed the hard dough into the layering or forming machines or dough feeder as required 		3	1	2
PC13	 Ensure the correct forming and moulding of the dough 		2	0.5	1.5
PC14	sheeting roller of the laminator machine to produce continuous sheet of hard dough as per specifications and		2	0.5	1.5





Assessment criteria			, , , , , , , , , , , , , , , , , , , ,
standards (for hard dough)			
PC15. Set the required moulding roller/ cutter/ die	2	0.5	1.5
PC16. Set the controls of rotary cutter machine to cut the sheet of hard dough to desired size, shape and design as per specifications and standards of the organization	5	2	3
PC17. Set the controls of the conveyors to separate the cut hard dough and control scrap return	2	0.5	1.5
PC18. Control operation of the sprinkler	2	0.5	1.5
PC19. Set the controls of rotary cutter machine and start machine to mould soft dough to desired size, shape, weight and thickness as per specifications and standards of the organization (for soft dough)	2	0.5	1.5
PC20. Ensure correct transfer of dough pieces to the oven band	2	0.5	1.5
PC21. Pre-heat the oven and set the oven parameters such as baking temperature and baking time (batch process), load the filled pans /moulds in the oven and bake the dough monitoring oven parameters during baking process	5	2	3
PC22. Set and maintain the speed of the panning conveyor to control the shaped/moulded dough entering the tunnel oven (continuous process)	3	1	2





,	Assessment criteria	T	T	,
	3. Set the oven parameters such as temperature, time, conveyor speed, etc. And monitor the oven parameters during baking process	2	0.5	1.5
PC	4. Observe baking of biscuits through the observation window of the tunnel oven	1	0.5	0.5
PC	5. Observe quality of baked biscuit coming out of oven through parameters such as color, aroma, texture, etc. To detect over baking /under baking and control oven parameters to achieve finished product of uniform quality	5	2	3
PC	6. Remove non-conforming products from the conveyor	3	1	2
PC	7. Check the quality of the finished products through physical parameters such as colour, size, appearance, texture, aroma, taste, etc. And compare against standard	5	2	3
PC	8. Set, control and maintain speed of the cooling conveyor to cool the biscuit	2	1	1
PC	9. Weigh the ingredients such as fat, sugar, chocolate, flavour, etc. Required for preparing the cream/centre filling material for soft dough biscuits	3	1	2
PC	O. Transfer the ingredients into the mixer, set and adjust controls and start mixer to mix cream ingredients	3	1	2
PC	1. Transfer cream into the cream feed and set controls of metering devices of cream feed on the sandwiching machine	2	0.5	1.5





	1	Assessment crite	i ia			
	PC32.	Set controls of the sandwiching machine to fill measured quantity of cream on soft dough biscuit, position and place another soft dough biscuit over cream filled biscuit, press the biscuits and maintain the thickness of the cream biscuit		2	0.5	1.5
	PC33.	Check the quality of the finished products through physical parameters such as colour, size, appearance, texture, aroma, taste etc. And compare against standard		2	0.5	1.5
	PC34.	Remove non-conforming products from the conveyor		2	1	1
	PC35.	Report discrepancies/concerns in each stage of production to department supervisor for immediate action		3	1	2
	PC36.	Clean the work area, machineries, equipment and tools using recommended cleaning agents and sanitizers		2	1	1
	PC37.	Attend minor repairs/faults of all machines (if any)		2	0.5	1.5
	PC38.	Ensure periodic (daily/weekly/monthly/q uarterly/half yearly/annual) maintenance of all machines and equipment following the SOP or following suppliers instructions/manuals		5	2	3
				100	35	65
4. FIC/N5012 (Complete documentation and record keeping related to production of biscuits in industrial units)	PC1.	Document and maintain record of all raw materials used for making biscuits such as name of raw materials, supplier details, batch number, receiving date/	100	10	6	4





	Assessment crite	ı ıa			
ex qu pa ma an pe	ate of manufacture, spiry date, supplier uality document, quality arameters of all raw aterials, internal quality nalysis report, etc. as er organziational andards				
ob	aintain record of oservations (if any) lated to raw materials		5	3	2
de	ead the raw materials etails in ERP for future ference		5	3	2
an pro in co qu	erify the documents and track from finished roduct to raw materials, case of quality encerns and during uality management stem audit		5	3	2
red de pro pro eq ma eff	ocument and maintain cord of production etails such as the oduct produced, oduction sequence, quipments and achinery details, ficiency and capacity ilization of equipment		10	6	4
rec su ma do pa tec for pro	ocument and maintain cord of process details ich as type of raw aterial used, type of ough, process arameters (mperature, time, etc.) ir entire process in ocess chart or oduction log for all oducts produced		15	9	6
red ma ea wa uti	ocument and maintain cord of batch size, raw aterial used, yield after ach stage of process, astage, energy ilization and final oducts produced		10	6	4





	Assessment crite			
P	 Maintain record of observations (if any) or deviations related to production and process parameters 	5	5 3	3 2
P	9. Load the production plan and process details in ERP for future reference	5	5 3	3 2
P	210. Verify documents andtrack from finished product to ingredients, in case of quality concerns and for quality management system audits	5	5 3	3 2
P	record of finished products details such as type of products produced, quantity produced per batch, quantity produced in each type of product, batch number, time of packing, date of manufacture, date of expiry, other label details, primary ,secondary and tertiary packaging materials for all finished products, storage conditions, etc. as per organizational standards	1/	0 6	5 4
P	12. Maintain record of observations or deviations (if any) related to finished products	5	5 3	3 2
P	13. Load the details of finished products in ERP for future reference	5	5 3	3 2
P	14. Verify the documents and track from finished product to raw materials, in case of quality concerns and for quality management system audits	5	5 3	3 2





		Assessment trite		100		40
F. FIG/NIGOOG /F	DC4	Committee Control		100	60	40
5. FIC/N9001 (Food safety, hygiene and sanitation for processing food products)	PC1.	Comply with food safety and hygiene procedures followed in the organization		5	2	3
	PC2.	Ensure personal hygiene by using of gloves, hairnets, masks, ear plugs, goggles, shoes, etc.		6	1	5
	PC3.	Ensure hygienic production of food by inspecting raw materials, ingredients, finished products, etc. for compliance to physical, chemical and microbiological parameters		5	2	3
	PC4.	Pack products in appropriate packaging materials, label and store them in designated area, free from pests, flies and infestations		10	4	6
	PC5.	Clean, maintain and monitor food processing equipment periodically, using it only for the specified purpose		5	2	3
	PC6.	Use safety equipment such as fire extinguisher, first aid kit and eye-wash station when required		10	4	6
	PC7.	Follow housekeeping practices by having designated area for materials/tools		5	2	3
	PC 8.	Follow industry standards like GMP and HACCP and product recall process		10	4	6
	PC 9.	Attend training on hazard management to understand types of hazards such as physical, chemical and biological		5	1	4





Assessment Criteria								
hazards and measures to control and prevent them								
PC 10. Identify, document and report problems such as rodents and pests to management		5	1	4				
PC 11. Conduct workplace checklist audits before and after work to ensure safety and hygiene		5	1	4				
PC 12. Document and maintain raw material, packaging material, process and finished products for the credibility and effectiveness of the food safety control system		4	1	3				
PC 13. Determine the quality of food using criteria such as aroma, appearance, taste and best before date, and take immediate measures to prevent spoilage		5	2	3				
PC 14. Store raw materials, finished products, allergens separately to prevent cross-contamination		5	2	3				
PC 15. Label raw materials and finished products and store them in designated storage areas according to safe food practices		5	2	3				
PC 16. Follow stock rotation based on FEFO/ FIFO		10	4	6				
		100	35	65				