

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



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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 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
Applicable National Occupational Standards (NOS)	Compulsory: 1. FIC/N5009 Prepare and maintain work area and process 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 keeping related to production of biscuits in industrial units 5. FIC/N9001 Food safety, hygiene and sanitation for processing food products
Performance Criteria	As described in the relevant OS units



Qualifications Pack For Plant Biscuit Production Specialist

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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 Criteria	Performance Criteria are statements that together specify the standard of 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.	

Qualifications Pack For Plant Biscuit Production Specialist



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
НАССР	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
РС	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.



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(P	C) w.r.t. the Scope		
Element	Performance Criteria		
Prepare and maintain	PC1. clean and maintain the cleanliness of the work area using approved sanitizers		
work area (for	and keep it free from dust, waste, flies and pests		
production of biscuits	PC2. ensure that the work area is safe and hygienic for food processing		
in industrial units)	PC3. dispose waste materials as per defined SOP's and industry requirements		
Prepare and maintain	PC4. check the working and performance of all machineries and tools used for		
process machineries and tools (for	production such as proof box, oven, packaging machines, etc. PC5. clean the machineries and tools used with approved sanitizers following		
production of biscuits	specifications and sops		
in industrial units)	PC6. place the necessary tools required for the process		
	PC7. attend minor repairs/ faults of machines, if required		
Knowledge and Unders			
A. Organizational	The user/individual on the job needs to know and understand:		
Context (Knowledge of the	KA1. organization standards, process standards and procedures followed in 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		
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		
Knowledge	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		
	cofety, recommended decage for use of conitizers, control of substances		
	safety, recommended dosage for use of sanitizers, control of substances hazardous to health, handling/storage/ disposal/ cautions for use of sanitizers		



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	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	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:
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/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

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Prepare for production of biscuits in industrial units

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	C) 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 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.





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 breakdownKnowledge and Understanding (K)B. OrganizationalThe user/individual on the job needs to know and understand:	
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 Understanding (K)	
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Knowledge and Understanding (K)	
B Organizational The user/individual on the job peeds to know and understand:	
Context (Knowledge of theKA1. organization standards, process standards and procedures followed in th organization	e
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	on 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 i	n the
organization	
KB9. maintenance of baking equipments	
KB10. supplier/manufacturer's instructions for all baking machineries equipments	and
KB11. basic mathematics to calculate raw material required for obtaining spe	cified
quantity of finished product	omea
KB12. quality parameters and quality assessment based on physical parameters	S
KB13. food safety and hygiene	
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:	
SkillsThe user/ individual on the job needs to know and understand how to: SA1. note the information communicated by the supervisor	
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	





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
D. I TOTESSIONAL SKINS	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
	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
	SBC. plan to utilise time and equipment's effectively SB7. organize all process/ equipment manuals so as to access information easily
	SB7. organize an process/ equipment mandals so as to access mormation 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
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	Analytical Thinking
	The user/individual on the job needs to know and understand how to:
	The discriminidual of the job needs to know and understand now 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			







FIC/N5010 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

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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	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 ingredient 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 		

NOS National Occupational Standards

Produce biscuits in industrial units



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	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





FIC/N5011	Produce biscuits in industrial units		
Post process cleaning and regular maintenance of equipments	 PC36. clean the work area, machineries, equipment and tools using recommended cleaning agents and sanitizers PC37. attend minor repairs/faults of all machines (if any) 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 Unders	standing (K)		
C. Organizational Context (Knowledge of the organization and its processes)	 The user/individual on the job needs to know and understand: KA1. organization standards, process standards and procedures followed in the organization 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 Knowledge	 KA8. food safety and hygiene standards followed The user/individual on the job needs to know and understand: 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 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 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 KB16. good manufacturing practice (gmp) KB17. hazard analysis and critical control point (haccp) 		
Skills (S)			
B. Core Skills/ Generic Skills	Writing SkillsThe user/ individual on the job needs to know and understand how to:SA1. note the information communicated by the supervisorSA2. note the raw materials used for production and the finished productsproduced		





Produce biscuits 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		
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	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		
	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

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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(F	PC) w.r.t. the Scope				
Element	Performance Criteria				
Document and	PC1. document and maintain record of all raw materials used for making biscuits				
maintain record of	such as name of raw materials, supplier details, batch number, receiving				
raw material (for production of biscuits	date/ date of manufacture, expiry date, supplier quality document, quality parameters of all raw materials, internal quality analysis report, etc. as per				
in industrial units)	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				
Document and	case of quality concerns and during quality management system audit				
maintain record of	PC5. document and maintain record of production details such as the product produced, production sequence, equipments and machinery details,				
production schedule	efficiency and capacity utilization of equipment				
and process	PC6. document and maintain record of process details such as type of raw material				
parameters (for	used, type of dough, process parameters (temperature, time, etc.) for entire				
production of biscuits	process in process chart or production log for all products produced				
in industrial units)	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				
Document and	quality concerns and for quality management system audits				
Document and maintain record of	PC11. document and maintain record of finished products details such as type of products produced, quantity produced per batch, quantity produced in each				
finished products (type of produced, batch number, time of packing, date of manufacture, date of				
for production of	expiry, other label details, primary ,secondary and tertiary packaging				
biscuits in industrial	materials for all finished products, storage conditions, etc. as per				
units)	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		
B. Technical	KA8. food safety and hygiene standards followed		
	The user/individual on the job needs to know and understand: KB1. documentation system followed in the organization such as production chart,		
Knowledge			
	process chart and finished products chart KB2. details of raw materials and finished products to be recorded		
	KB2. 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:		
Generic Skills	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			
	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			
	SB16. use acquired knowledge of the process for identifying and handling issues			





FIC/N5012 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

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Food Safety, hygiene and sanitation for processing food products

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(P	C) 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 soolage 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





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	PC16. follow stock rotation based on FEFO/ FIFO
Knowledge and Unders	
E. Organizational Context (Knowledge of the organization and its processes)	 The user/individual on the job needs to know and understand: KA1. organization standards, process standards and procedures followed in the organization 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 KA8. food safety and hygiene standards followed
B. Technical Knowledge	 The user/individual on the job needs to know and understand: KB1. possible physical, chemical and biological hazards and methods of prevention 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 KB10. stock rotation of ingredients and finished products based on FEFO/FIFO KB11. method of maintaining safety check lists for all machineries KB12. GHP KB13.GMP KB14. HACCP
Skills (S)	
D. Core Skills/	Writing Skills
Generic Skills	 Writing skins 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
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	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						
	SBC. plan to utilise time and equipment's effectively SB7. organize all process/ equipment manuals so as to access information easily						
	SB7. organize an process/ equipment manuals so as to access mormation 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





Food Safety, hygiene and sanitation for processing food products

NOS Version Control

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Industry Sub-sector	Bread and bakery	Last reviewed on	04/09/18				
Occupation	Processing	Next review date	30/06/19				

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Qualifications Pack for Plant Biscuit Production Specialist

Annexure

Nomenclature for QP and NOS

Qualifications Pack



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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	00-09
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 criteria			1	
	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





rr		Assessment crite	l la			
		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		,	2.5	4.5
[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/				
	PC8.	Allot responsibilities/ work to the assistants				
		and helpers		7	2	5
		and no.pere				
-	PC9.	Refer to the process				
		chart/ product flow				
		chart/formulation chart		5	2	3
		for product(s) produced				
	DC10	Weigh the row materials				
	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.				





	-	Assessment crite	11a			
	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
				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





r		Assessment crite	11a			
		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
	PC11.	Ferment the dough if required		3	1	2
		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.	Set the controls of each sheeting roller of the laminator machine to produce continuous sheet of hard dough as per specifications and		2	0.5	1.5





rr		Assessment crite	lla			
		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
		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 crite	ria			
PC23.	Set the oven parameters				
	such as temperature,				
	time, conveyor speed,		2	0.5	1.5
	etc. And monitor the		2	0.5	1.5
	oven parameters during				
	baking process				
PC24.	Observe baking of				
	biscuits through the		1	0.5	0.5
	observation window of		T	0.5	0.5
	the tunnel oven				
PC25.	Observe quality of baked				
	biscuit coming out of				
	oven through				
	parameters such as				
	color, aroma, texture,				
	etc. To detect over		5	2	3
	baking /under baking				
	and control oven				
	parameters to achieve				
	finished product of				
	uniform quality				
PC26.	Remove non-conforming				
	products from the		3	1	2
	conveyor		-	_	_
PC27	Check the quality of the	-			
1027.	finished products				
	through physical				
	parameters such as				
	colour, size, appearance,		5	2	3
	texture, aroma, taste,				
	etc. And compare				
	against standard				
DC38	Set, control and				
FC20.	maintain speed of the				
	cooling conveyor to cool		2	1	1
	the biscuit				
PC29.	Weigh the ingredients				
PC29.	such as fat, sugar,				
	chocolate, flavour, etc.				
	Required for preparing		3	1	2
	the cream/centre filling		5	T	2
	material for soft dough biscuits				
PC30.	Transfer the ingredients				
	into the mixer, set and		2	1	2
	adjust controls and start		3	1	2
	mixer to mix cream				
	ingredients				
PC31.					
	cream feed and set				
	controls of metering		2	0.5	1.5
	devices of cream feed on		-		
	the sandwiching				
	machine				





		Assessment crite			1	
	PC32.	Set controls of the sandwiching machine to				
		fill measured quantity of				
		cream on soft dough				
		biscuit, position and		2	0.5	1 5
		place another soft dough biscuit over cream filled		2	0.5	1.5
		biscuit over cream filled				
		and maintain the				
		thickness of the cream				
		biscuit				
	PC33.	Check the quality of the				
		finished products				
		through physical				
		parameters such as		2	0.5	4 5
		colour, size, appearance,		2	0.5	1.5
		texture, aroma, taste				
		etc. And compare				
		against standard				
	PC34.	0				
		products from the		2	1	1
		conveyor				
	PC35.	Report				
		discrepancies/concerns				
		in each stage of		3	1	2
		production to		-		
		department supervisor				
	DCCC	for immediate action				
	PC36.	Clean the work area, machineries, equipment				
		and tools using		2	1	1
		recommended cleaning		<u> </u>	Ŧ	1
		agents and sanitizers				
	PC37.					
		repairs/faults of all		2	0.5	1.5
		machines (if any)				
	PC38.	Ensure periodic				
		(daily/weekly/monthly/q				
		uarterly/half				
		yearly/annual)				
		maintenance of all		-	n	2
		machines and		5	2	3
		equipment following				
		the SOP or following				
		suppliers				
		instructions/manuals				
				100	35	65
4. FIC/N5012	PC1.	Document and maintain				
(Complete		record of all raw				
documentation and		materials used for				
record keeping related		making biscuits such as	100	10	6	4
to production of biscuits		name of raw materials,				
in industrial units)		supplier details, batch				
		number, receiving date/				





		Assessment crite	lla			
		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		5	3	2
-	PC3.	Load the raw materials details in ERP for future reference		5	3	2
	PC4.	Verify the documents and track from finished product to raw materials, in case of quality concerns and during quality management system audit		5	3	2
	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		10	6	4
	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		15	9	6
	PC7.	Document and maintain record of batch size, raw material used, yield after each stage of process, wastage, energy utilization and final products produced		10	6	4





TT	Assessment crite	i ia			
P	C8. Maintain record of observations (if any) or deviations related to production and process parameters		5	3	2
P	C9. Load the production plan and process details in ERP for future reference		5	3	2
P	C10. Verify documents andtrack from finished product to ingredients, in case of quality concerns and for quality management system audits		5	3	2
P	C11. 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		10	6	4
P	C12. Maintain record of observations or deviations (if any) related to finished products		5	3	2
P	C13. Load the details of finished products in ERP for future reference		5	3	2
P	C14. Verify the documents and track from finished product to raw materials, in case of quality concerns and for quality management system audits		5	3	2





				100	60	40
5. FIC/N9001 (Food	PC1.	Comply with food safety	ļ Ē			
safety, hygiene and sanitation for processing food products)		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





hazards and meas control and preve them				
PC 10. Identify, documer report problems s rodents and pests management	uch as	5	1	4
PC 11. Conduct workplac checklist audits be and after work to safety and hygien	ensure	5	1	4
PC 12. Document and ma raw material, pac material, process finished products credibility and effectiveness of th safety control syst	kaging and for the ne food	4	1	3
PC 13. Determine the qu food using criteria as aroma, appear taste and best be date, and take immediate measu prevent spoilage	such ance, ore	5	2	3
PC 14. Store raw materia finished products allergens separate prevent cross- contamination		5	2	3
PC 15. Label raw materia finished products store them in des storage areas acc to safe food pract	and gnated ording	5	2	3
PC 16. Follow stock rotat based on FEFO/ F		10	4	6
		100	35	65