





Model Curriculum

QP Name: Food Products Packaging Technician

QP Code: FIC/Q7001

QP Version: 1.0

NSQF Level: 4

Model Curriculum Version: 1.0

Food Industry Capacity and Skill Initiative (FICSI)
Shriram Bharatiya Kala Kendra (3rd Floor)
Copernicus Marg, New Delhi 110001
Phone: 9711260230





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Training Parameters

Sector Sub-Sector Sub-Sector Fruit And Vegetable, Food Grain Milling (Including Oilseeds), Dairy Products, Meat And Poultry, Fish & Sea Food, Bread And Bakery, Alcoholic Beverages, Aerated Water/Soft Drinks Occupation Packaging Country India NSQF Level Aligned to NCO/ISCO/ISC Code Minimum Educational Qualification and Experience 1. Class 12th passed and 1 year relevant experience 2. 10th Pass with 1 year of ITI and 2 years of experience 4. Class 10th passed and 3 years of relevant experience 4. Class 10th passed and 3 years of relevant experience 4. Class 10th passed and 3 years of relevant experience 5. Intypes and categories of packaging materials 7. Types of packing methods and techniques 7. Packaging various types of food products 7. Computer basics and ERP 8. Training in food Safety Standards and Regulations (as per FSSAI) (Mandatory) Minimum Job Entry Age Last Reviewed On Next Reviewed Date QP Version 1.0 Model Curriculum Creation Date Model Curriculum Version Minimum Duration of the Course 280 Hours Maximum Duration of the Course 280 Hours	Sub-Sector Fruit And Vegetable, Food Grain Milling (Including Oilseeds), Dairy Products, Meat And Poultry, Fish & Sea Food, Bread And Bakery, Alcoholic Beverages, Aerated Water/Soft Drinks Occupation Packaging Country India NSQF Level Aligned to NCO/ISCO/ISIC Code Minimum Educational Qualification and Experience 1. Class 12th passed and 1 year relevant experience 2. 10th Pass with 1 year of ITI and 2 years of experience 3. 10th Pass with 1 year of ITI and 2 years of experience 4. Class 10th passed and 3 years of relevant diploma 5. Class 10th passed and 3 years of relevant experience 1. Types and categories of packaging materials 2. Types of packing methods and techniques 3. Packaging various types of food products 4. GMP 5. HACCP 6. QMS 7. Computer basics and ERP 8. Training in food Safety Standards and Regulations (as per FSSAI) (Mandatory) Minimum Job Entry Age Last Reviewed On 31-05-2021 Next Review Date NSQC Approval Date QP Version 1.0 Model Curriculum Creation Date Model Curriculum Valid Up to Date 31-05-2024 Model Curriculum Version 1.0		0
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Maximum Duration of the Course 280 Hours	Maximum Duration of the Course 280 Hours	Minimum Duration of the Course	280 Hours
		Maximum Duration of the Course	280 Hours





Program Overview

This section summarizes the end objectives of the program along with its duration.

Training Outcomes

At the end of the program, the learner will be able to:

- Maintain work area and machineries for packaging food products
- Prepare for packaging food products
- Package food products
- Document and record keeping related to packaging food products
- Apply food safety, hygiene and sanitation standards for packaging food products

Compulsory Modules

The table lists the modules, their duration and mode of delivery.

NOS and Module Details	Theory Duratio n	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
Introduction to Training Program and Overview of packaging Industry	34:00 Hours	18:00 Hours	00:00 Hours	00:00 Hours	52:00 Hours
Module 1: Introduction to the training program	02:00 Hours	00:00 Hours	00:00 Hours	00:00 Hours	02:00 Hours
Module 2: Professional and Core Skills	04:00 Hours	06:00 Hours	00:00 Hours	00:00 Hours	10:00 Hours
Module 10: Employability and Entrepreneurship skills	28:00 Hours	12:00 Hours	00:00 Hours	00:00 Hours	40:00 Hours
FIC/N7001 Prepare and maintain work area and process machineries for packaging food products NOS Version No.: 1.0 NSQF Level: 4	10:00 Hours	26:00 Hours	00:00 Hours	00:00 Hours	36:00 Hours
Module 3: Prepare and maintain work area and process machineries for packaging food products	10:00 Hours	26:00 Hours	00:00 Hours	00:00 Hours	36:00 Hours
FIC/N7002 Prepare for packaging food products NOS Version No.: 1.0 NSQF Level: 4	12:00 Hours	28:00 Hours	00:00 Hours	00:00 Hours	40:00 Hours
Module 4: Prepare for packaging food products	12:00 Hours	28:00 Hours	00:00 Hours	00:00 Hours	40:00 Hours
FIC/N7003 Package food products	24:00 Hours	50:00 Hours	00:00 Hours	00:00 Hours	74:00 Hours





NOS Version No.: 1.0					
NSQF Level: 4					
Module 5: Package food	16:00	30:00	00:00 Hours	00:00 Hours	46:00
products	Hours	Hours			Hours
Module 6: Organisational	08:00	20:00	00:00 Hours	00:00 Hours	28:00
standards and norms	Hours	Hours			Hours
FIC/N7004	14:00	29:00	00:00 Hours	00:00 Hours	43:00
Complete documentation	Hours	Hours			Hours
and record keeping related					
to packaging food					
products					
NOS Version No.: 1.0					
NSQF Level: 4					
Module 7: Complete	08:00	14:00	00:00 Hours	00:00 Hours	22:00
documentation and record	Hours	Hours			Hours
keeping related to					
packaging food products					
Module 8: IT Orientation	06:00	15:00	00:00 Hours	00:00 Hours	21:00
	Hours	Hours			Hours
FIC/N7005	15:00	20:00	00:00 Hours	00:00 Hours	35:00
Food safety, hygiene and	Hours	Hours			Hours
sanitation for packaging					
food products					
NOS Version No.: 1.0					
NSQF Level: 3					
Module 9: Food safety,	15:00	20:00	00:00 Hours	00:00 Hours	35:00
hygiene and sanitation for	Hours	Hours			Hours
packaging food products					
Total Duration	109:00	171:00	00:00 Hours	00:00 Hours	280:00
	Hours	Hours			Hours





Module 1: Introduction to Training Program and Overview of packaging Industry Bridge Module

Terminal Outcomes:

• prepare work area and process machineries to produce jam, jelly & ketchup processing

actical – Key Learning Outcomes
tation and software, Facilitator's Guide,





Module 2: Professional and Core Skills *Bridge Module*

Terminal Outcomes:

- Discuss the attributes of desirable professional behaviour
- Demonstrate the standard measures undertaken for working effectively

Duration : <i>04:00</i>	Duration: <i>06:00</i>	
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes	
 Identify personal strengths and weaknesses. Discuss the importance of work order in the process. Explain the importance of decision making in the job. Explain the importance of communicating effectively. 	 Apply standard practice to undertake a self-assessment test for identifying strengths and weaknesses. Plan and prioritise tasks effectively to ensure timely completion. Demonstrate the ways to analyse situations for identifying problems and making sound decision promptly. 	
Classroom Aids:		
Computer, Projection Equipment, PowerPoint Pro Participant's Handbook Tools, Equipment and Other Requirements NIL	esentation and software, Facilitator's Guide,	





Module 3: Prepare and maintain work area and process machineries for packaging food products Mapped to NOS/FIC/N7001 v 1.0

Terminal Outcomes:

• Prepare work area and process machineries for packaging of food products

Duration : 26:00
Practical – Key Learning Outcomes
 Perform the process of preparing the work area for scheduled production. Conduct minor repairs and faults in process machineries. Prepare the machines and tools required for production.

Participant's Handbook

Tools, Equipment and Other Requirements

Different types of Packaging Material, Conveyor, Hopper, Protective Gloves, Head Caps, Aprons, Safety Goggles, Safety Boots, Mouth Masks, Sanitizer, Safety Manual





Module 4: Prepare for packaging food products *Mapped to NOS/N7002 v 1.0*

Terminal Outcomes:

• Prepare for packaging of food products

Duration: 12:00	Duration: 28:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 Describe the work order. Explain how to check the availability of packaging materials, equipment and manpower. 	 Calculate the packaging material requirement for all categories of packaging, such as primary, secondary and tertiary for completing the order. Demonstrate starting machine and checking the working condition and performance of the machine. Demonstrate moving of required packaging materials. Inspect the packaging material quality to company standards.

Classroom Aids

Computer, Projection Equipment, PowerPoint Presentation and software, Facilitator's Guide, Participant's Handbook

Tools, Equipment and Other Requirements

Different Types of Packaging Material, Conveyor, Hopper, Protective Gloves, Head Caps, Aprons, Safety Goggles, Safety Boots, Mouth Masks, Sanitizer, Safety Manual





Module 5: Package food products *Bridge Module or Mapped to NOS/N7003 v 1.0*

Terminal Outcomes:

- Discuss the stages involved in the packaging of food products
- Demonstrate the tasks to be performed for packaging of products

Duration: 16:00	Duration: 30:00	
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes	
List the machines and materials involved in the packaging of food products.	 Demonstrate feeding food product to conveyors, hoppers or other feeding devices for packaging. Demonstrate feeding the packaging materials. Demonstrate setting controls and regulate speed of packaging line conveyor. Demonstrate removing packaged product (i.e. primary packaging material) from the machine. Demonstrate checking the weight of the packed pouch/containers and adjust controls if required. Demonstrate glue/paste label on the primary packaging material (in case of bottles). Demonstrate checking the quality of the secondary packaging materials. Demonstrate placing the filled primary packaging materials (bottles, pouches) manually in secondary packaging material (carton/crate). Demonstrate checking the quality of the tertiary packaging materials. Demonstrate removing the product in tertiary packaging material. Demonstrate removing tertiary packed product from the packaging machine. Demonstrate cleaning of machineries used with recommended sanitizers following CIP (clean-in-place) procedure. 	
Classroom Aids		





Computer, Projection Equipment, PowerPoint Presentation and software, Facilitator's Guide, Participant's Handbook

Tools, Equipment and Other Requirements

Different Types of Packaging Material, Conveyor, Hopper, Protective Gloves, Head Caps, Aprons, Safety Goggles, Safety Boots, Mouth Masks, Sanitizer, Safety Manual, Packing Rolls, Shrink Packing Machine, Vacuum Packing Machine, Labeler, Sealer, Wrapping Machine





Module 6: Organisational standards and norms $Mapped\ to\ NOS/NO107\ v\ 1.0$

Terminal Outcomes:

• Discuss the roles and responsibilities of the individual in the job

Duration: 08:00	Duration: 20:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
 List the roles and responsibilities the individual in the job Explain the food safety hygiene standards to follow in a work environment 	 Demonstrate how to conduct yourself at the workplace State the personal hygiene and sanitation guidelines
Classroom Aids	
Computer, Projection Equipment, PowerPoint P Participant's Handbook	resentation and software, Facilitator's Guide,

Tools, Equipment and Other Requirements

Protective Gloves, Head Caps, Lab Coat, Safety Goggles, Safety Boots, Mouth Masks, Sanitizer, Food Safety Manual





Module 7: Complete documentation and record keeping related to packaging food products $Mapped\ to\ FIC/N7004\ v\ 1.0$

Terminal Outcomes:

• Document and maintain records related to jam, jelly & ketchup processing,

Duration: 08:00	Duration: 14:00	
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes	
 Explain the need for documenting and maintaining records of raw materials, processes and finished products. Discuss the method of documenting and recording the details of raw material to final finished product. 	Demonstrate the process of documenting records of production plan, process parameters, and finished product.	
Classroom Aids		
Computer, Projection Equipment, PowerPoint Pro Participant's Handbook	esentation and software, Facilitator's Guide,	
Tools, Equipment and Other Requirements		
Food Safety Manual, Log Books.		





Module 8: IT orientation *Mapped to FIC/N0112v1.0*

Terminal Outcomes:

- List the parts of a computer
- Demonstrate the effective use of data recording applications at the workplace

Duration: 06:00	Duration: 15:00	
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes	
 List the various parts of a computer. Describe the functions of different computer devices. List the various applications used in recording information. 	 Demonstrate the standard techniques used to operate a computer. Show how to use an ERP software for recording information. Demonstrate the effective use of applications such as word processor and spreadsheets. 	
Classroom Aids:		
Computer, Projection Equipment, PowerPoint Presentation and software, Facilitator's Guide, Participant's Handbook		
Tools, Equipment and Other Requirements		
Computer/laptop.		





Module 9: Food safety, hygiene and sanitation for packaging food products Mapped to FIC/N7005 v 1.0

Terminal Outcomes:

- Discuss the importance of health and safety at the workplace
- Demonstrate the tasks to be performed for ensuring health and safety at the workplace

Duration: 15:00	Duration: 20:00			
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes			
 Explain the importance of safety, hygiene and sanitation in packaging food products. Discuss the method of documenting and recording the details of raw material to final packaged product. 	 Apply the industry standards to maintain a safe and hygiene workplace. Apply HACCP principles to eliminate food safety hazards in the process and products. Apply safety practices in the work area. 			
Classroom Aids				
Computer, Projection Equipment, PowerPoint Pro Participant's Handbook	esentation and software, Facilitator's Guide,			

Tools, Equipment and Other Requirements

Protective Gloves, Head Caps, Aprons, Safety Goggles, Safety Boots, Mouth Covers, Sanitizer, Safety Manual ,Log Books etc.





Module 10: Employability and Entrepreneurship skills

Terminal Outcomes:

- Describe the traits of individual at workplace
- Demonstrate apply employability and entrepreneurship skills at workplace





- Understand the importance of entrepreneurship
- Describe the traits of successful entrepreneur
- List the types of enterprises
- Understand the importance of effective speaking and listening
- Discuss the importance of problem solving
- Discuss how to deal with failures
- Describe the core keys of marketing
- Discuss ways to manage risks at workplace

Classroom Aids:

Computer, Projection Equipment, PowerPoint Presentation and software, Facilitator's Guide, Participant's Handbook.

Tools, Equipment and Other Requirements

Nil





Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Specialization Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
	Years	Specialization	Years	Specialization		
M.Sc./M. Tech/ME in	Food Technology or Food Engineering	2	Food Technology or Food Engineering	1	Training of food products packaging technicians	
B. Sc. (home Sc.) /B. Tech./BE in food Technology or Food Engineering	Food Technology or Food Engineering	3	Food Technology or Food Engineering	2	Training of food products packaging technicians	
Diploma in food Technology or Food Engineering	Food Technology or Food Engineering	4	Food Technology or Food Engineering	3	Training of food products packaging technicians	

Trainer Certification				
Domain Certification	Platform Certification			
Certified for Job Role: "Food Products Packaging Technician" mapped to QP: "FIC/Q7001, v1.0". Minimum accepted score is 80%	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "MEP/Q2601". Minimum accepted score is 80 % as per FICSI guidelines.			





Assessor Requirements

Assessor Prerequisites						
Minimum Specialization Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
	Years	Specialization	Years	Specialization		
M.Sc./M. Tech/ME in	Food Technology or Food Engineering	2	Food Technology or Food Engineering	1	Assessment of food products packaging technician	
B. Sc. (home Sc.) /B. Tech./BE in food Technology or Food Engineering	Food Technology or Food Engineering	3	Food Technology or Food Engineering	2	Assessment of food products packaging technician	
Diploma in food Technology or Food Engineering	Food Technology or Food Engineering	4	Food Technology or Food Engineering	3	Assessment of food products packaging technician	

Assessor Certification				
Domain Certification	Platform Certification			
Certified for Job Role: "Food Products Packaging Technician" mapped to QP: "FIC/Q7001, v1.0". Minimum accepted score is 80%	Recommended that the Assessor is certified for the Job Role: "Assessor", mapped to the Qualification Pack: "MEP/Q2701". Minimum accepted score as per MEPSC guidelines is 80%.			





Assessment Strategy

This section includes the processes involved in identifying, gathering and interpreting information to evaluate the learner on the required competencies of the program.

- 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 Pac







References

Glossary

Term	Description
Declarative Knowledge	Declarative knowledge refers to facts, concepts and principles that need to be known and/or understood in order to accomplish a task or to solve a problem.
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
OJT (M)	On-the-job training (Mandatory); trainees are mandated to complete specified hours of training on site
OJT (R)	On-the-job training (Recommended); trainees are recommended the specified hours of training on site
Procedural Knowledge	Procedural knowledge addresses how to do something, or how to perform a task. It is the ability to work, or produce a tangible work output by applying cognitive, affective or psychomotor skills.
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training .
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module. A set of terminal outcomes help to achieve the training outcome.





Acronyms and Abbreviations

Term	Description
NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
CIP	Clean In Place
СОР	Clean Out Of Place
ERP	Enterprise Resource Planning
FIFO	First In First Out
EFO	First Expiry First Out
FSSAI	Food Safety and Standards Authority of India
GMP	Good Manufacturing Practice
GHP	Good Hygiene Practices
HACCP	Hazard Analysis and Critical Control Point
NVEQF	National Vocational Educational Qualification Framework
NVQF	National Vocational Qualification Framework
os	Occupational Standard
PC	Performance Criteria
SSC	Sector Skill Council
SOP	Standard Operating Procedure
QMS	Quality Management System