





Model Curriculum

QP Name: Baking Assistant

QP Code: FIC/Q5007

QP Version: 1.0

NSQF Level: 2.5

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 | Food Processing | | | |
|---|--|--|--|--|
| Sub-Sector | Bread and Bakery | | | |
| Occupation | Processing-Bread and Bakery | | | |
| Country | India | | | |
| NSQF Level | 2.5 | | | |
| Aligned to NCO/ISCO/ISIC Code | NCO-2015/Nil | | | |
| Minimum Educational Qualification and Experience | Grade 10 pass OR OR 8th Grade pass with 2 year relevant experience OR Grade 5 pass with 5 year relevant experience | | | |
| Pre-Requisite License or Training | N/A | | | |
| Minimum Job Entry Age | 16 years | | | |
| Last Reviewed On | 15-02-2023 | | | |
| Next Review Date | 15-08-2023 | | | |
| Version | 1.0 | | | |
| NSQC Approval Date | 15-02-2023 | | | |
| Model Curriculum Creation Date | 12-01-2023 | | | |
| Model Curriculum Valid Upto Date | 15-08-2023 | | | |





| Model Curriculum Version | 1.0 |
|--------------------------------|-----------|
| Minimum Duration of the Course | 210 Hours |
| Maximum Duration of the Course | 210 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 participants will be able to:

- Maintain work area and process machineries for baking appropriately
- Prepare for production of bakery products as per production needs
- Prepare bakery products as per standard work practices

Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

| NOS and Module Details | Theory Duration | Practical Duration | On-the-Job Training Duration (Mandatory) | On-the-Job Training Duration (Recommended) | Total Duration |
|---|--------------------|-----------------------|---|---|-------------------|
| FIC/N9026: Prepare for production NOS Version No. 1 NSQF Level 3 | 20:00 Hours | 40:00 Hours | 00:00Hours | 00:00Hours | 60:00 Hours |
| Module1: Introduction to Training Program and Overview of Food Processing Industry | 02:00 Hours | 00:00 Hours | 00:00Hours | 00:00Hours | 02:00 Hours |
| Module 2: Prepare for production | 18:00 Hours | 40:00 Hours | 00:00Hours | 00:00Hours | 58:00 Hours |
| FIC/N5019: Bake bakery products in the oven NOS Version No. 1 NSQF Level 4 | 30:00 Hours | 60:00 Hours | 00:00Hours | 00:00Hours | 90:00 Hours |
| Module 3: Baking of bakery products | 30:00 Hours | 60:00 Hours | 00:00Hours | 00:00Hours | 90:00 Hours |





| FIC/N9901: Implement health and safety practices at the workplace NOS Version No. 1.0 NSQF Level 3 | 10:00 Hours | 20:00 Hours | 00:00Hours | 00:00Hours | 30:00 Hours |
|---|----------------|-----------------|------------|------------|-----------------|
| Module 4: Ensure food safety and personal hygiene | 10:00 Hours | 20:00 Hours | 00:00Hours | 00:00Hours | 30:00 Hours |
| DGT/VSQ/N0101 Employability Skills NOS Version No.: 1.0 NSQF Level: 2 | 12:00 Hours | 18:00 Hours | 00:00Hours | 00:00Hours | 30:00 Hours |
| Module 5: Employability Skills | 12:00 Hours | 18:00 Hours | 00:00Hours | 00:00Hours | 30:00 Hours |
| Total Duration | 72:00 Hours | 138:00 Hours | 00:00Hours | 00:00Hours | 210:00 Hours |





Module Details

Module1: Introduction to Training Program and Overview of Food Processing Industry Mapped to FIC/N9026 v1.0

Terminal Outcomes:

- Discuss in brief about food processing sector and its sub-sector
- Discuss about Baking sectors and its current and future market trends
- Discuss the roles & opportunities available in food processing industry

| Duration: 02:00 | Duration: 00:00 | |
|--|---------------------------------|--|
| Theory–Key Learning Outcomes | Practical–Key Learning Outcomes | |
| Describe food processing and its subsectors Discuss the future trends and career growth opportunities available in the food processing industry. Summarise the key roles and responsibilities of a Baking Assistant. Discuss the role of organisational policies and procedures in the job. | | |
| Classroom Aids: | | |
| Computer, Projection Equipment, Power Point Presentation and software, Facilitator's Guide, Participant's Handbook. | | |
| Tools, Equipment and Other Requirements | | |
| Nil | | |
| Paking Accistant | | |





Module 2: Prepare for production Mapped to FIC/N9026 v1.0

Terminal Outcomes:

- Discuss the standard practices to be followed for production
- Demonstrate the tasks to be performed for planning the production

| Practical – Key Learning Outcomes Demonstrate the procedure for obtaining work requirements from supervisors. Prepare samples to plan and prioritize work schedules Demonstrate how to estimate the |
|---|
| work requirements from supervisors.Prepare samples to plan and prioritize work schedules |
| resources as per the requirement (raw materials, packaging materials, machineries, and manpower) Demonstrate how to dispose of the waste material at the designated place, safely. Report information such as faulty tools and equipment to the concerned authority. Demonstrate how to organize production materials appropriately. |
| |

Classroom Alds:

Training kit (Trainer guide, Presentations), Whiteboard, Marker, Projector, Laptop, Presentation, Participant Handbook, etc.

Tools, Equipment, and Other Requirements

broom, brush, duster, vacuum cleaner, scraper, polisher, personnel protective equipment (PPE), hair net, gloves, mask, safety shoes, head cover, various cleaning agents, sample procedures, policies, equipment, chemicals, etc.





Module 3: Baking of bakery products Mapped to FIC/N5019 v1.0

Terminal Outcomes:

- Discuss the stages involved in the production of baked products
- Demonstrate the tasks to be performed for producing baked products





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

Tools, Equipment and Other Requirements

Baking ovens, baking sheet and rack, proof box, refrigerator, commercial mixer,wire whisker, packagingmachine,protectivegloves,headcaps,aprons,safetygoggles,safetyboots,mouth masks, sanitizer and food safety manuals.





Module 4: Ensure food safety and personal hygiene Mapped to FIC/N9901 v 1.0

Terminal Outcomes:

- Explain the ways to ensure food safety and personal hygiene at the workplace
- Demonstrate the steps to be followed for implementing good hygiene and manufacturing practices •

| Duration: 10:00 | Duration: 20:00 |
|---|--|
| Theory – Key Learning Outcomes | Practical – Key Learning Outcomes |
| Define hazards and risks. Recall the various types of health and safety equipment available in an organisation and the methods for obtainingthem. Discuss the relevant health and safety standards to be followed in the job as listed in 'The Food Safety andStandards Act, 2006'. Explain the importance of wearing appropriate personal protective equipment (such as eye protection, hard hats, gloves apron, rubber boots, etc.) and ensuring personal hygiene at the workplace. Elucidate the ways to prevent product contamination andcross contamination at the workplace. State the importance of storing food at specified temperature. Discuss the importance of sanitising self and the work area safely and appropriately. | Employ appropriate techniques to prevent product contamination and cross contamination. Demonstrate the steps to be performed for implementing good manufacturing practices(GMP) in a retail environment. Apply suitable methods for disinfecting the work area and equipment thoroughly. Demonstrate how to wash hands and use alcohol-based sanitisers appropriately. Show how to wear personal protective equipment such as gloves, hairnets, masks, ear plugs, goggles, shoes etc. properly ensuring adequate protection. Prepare a sample report consisting of information such as illness to self and others as per organisational practice. Roleplay a situation on how to communicate with the supervisor for reporting illness of self andothers. |
| Classroom Aids: | |

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

Tools, Equipment and Other Requirements

Gloves, hair net, shoe cover, soap dispenser, hand sanitizer, ear plugs, masks, aprons/lab coats eye protection, hard hats, gloves, rubber boots, etc.





Module 5: Employability skills Mapped to DGT/VSQ/N0101, v 1.0

Terminal Outcomes:

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

| Duration: 12:00 | Duration: 18:00 |
|--|--|
| Theory – Key Learning Outcomes | Practical – Key Learning Outcomes |
| Outline the importance of Employability Skills for the current job market and future of work. List different learning and employability related GOI and private portals and their usage. Explain the constitutional values, including civic rights and duties, citizenship, responsibility towards society and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen. Discuss 21st century skills. Highlight the importance of practicing 21st century skills like Self-Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal or professional life. Identify well-defined short- and long- term goals. Explain the importance of communication | Research and prepare a note on different industries, trends, required skills and the available opportunities. Demonstrate how to practice different environmentally sustainable practices. Create a pathway for adopting a continuous learning mindset for personal and professional development. Show how to use basic English sentences for everyday conversation in different contexts, in person and over the telephone. Read and understand text written in basic English. Write a short note/paragraph / letter/e -mail using correct basic English. Create a career development plan. Demonstrate how to communicate effectively using verbal and nonverbal communication etiquette. Role play a situation on how to work collaboratively with others in a team. Demonstrate how to behave, communicate, and conduct appropriately with all genders and PwD. Demonstrate how to conduct offline and |
| and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen. Discuss 21st century skills. Highlight the importance of practicing 21st century skills like Self-Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal or professional life. Identify well-defined short- and long- term goals. | everyday conversation in differ person and over the telephone Read and understand text writh English. Write a short note/paragraph / using correct basic English. Create a career development p Demonstrate how to communi- using verbal and nonverbal con etiquette. Role play a situation on how to collaboratively with others in a Demonstrate how to behave, c and conduct appropriately with and PwD. |





etiquette including active listening for effective communication.

- Discuss the significance of escalating sexual harassment issues as per POSH act.
- Discuss various financial institutions, products, and services.
- Explain the common components of salary such as Basic, PF, Allowances (HRA, TA, DA, etc.), tax deduction.
- Discuss the legal rights, laws, and aids.
- Describe the role of digital technology in day-to-day life and the workplace.
- Discuss the significance of displaying responsible online behavior while using various social media platforms.
- Explain the types of entrepreneurship and enterprises.
- Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its mitigation plan.
- Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement.
- Discuss various tools used to collect customer feedback.
- Discuss the significance of maintaining hygiene and dressing appropriately.
- Discuss the significance of maintaining hygiene and dressing appropriately for an interview.
- List the steps for searching and registering for apprenticeship opportunities.
- Explain the significance of identifying customer needs and addressing them
- Discuss the significance of maintaining

online financial transactions, safely and securely and check passbook/statement.

- Calculate income and expenditure for budgeting
- Demonstrate how to operate digital devices and use the associated applications and features, safely and securely
- Demonstrate how to connect devices securely to internet using different means
- Create an e-mail id and follow e- mail etiquette to exchange e -mails.
- Show how to create documents, spreadsheets and presentations using appropriate applications.
- Create a sample business plan, for the selected business opportunity.
- Demonstrate how to identify customer needs and respond to them in a professional manner.
- Draft a professional Curriculum Vitae (CV).
- Use various offline and online job search sources to find and apply for jobs.
- Role play a mock interview.





hygiene and dressing appropriately

- Discuss the significance of dressing up neatly and maintaining hygiene for an interview
- Discuss how to search and register for apprenticeship opportunities

Classroom Aids:

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

Tools, Equipment and Other Requirements

N/A





Annexure

Trainer Requirements

| Trainer Prerequisites | | | | | | |
|--------------------------------|---|---------------------------------|--------------------|---------------------|----------------|---------|
| Minimum Educational | Specialization | Relevant Industry Experience | | Training Experience | | Remarks |
| Qualification | | Years | Specialization | Years | Specialization | |
| Diploma /certificate course | Food Technology /Food Engineering / Home scienc or allied sector | 4 | Bakery industry | 1 | | |
| B.Sc./B. Tech/BE | Food Technology or Food Engineering | 2 | Bakery industry | 1 | | |
| M.Sc./M. Tech/ME | Food Technology or Food Engineering | 1 | Bakery industry | 1 | | |

| Trainer Certification | | | |
|--|--|--|--|
| Domain Certification | Platform Certification | | |
| Certified for Job Role: "Baking Assistant" mapped to QP: "FIC/Q5007, 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". Minimumacceptedscoreas per MEPSC guidelines is 80%. | | |





Assessor Requirements

| Assessor Prerequisites | | | | | | | |
|---|---|---------------------------------|--------------------|-----------------------------------|----------------|---------|--|
| Minimum Educational Qualification | Specialization | Relevant Industry Experience | | Training/Assessment Experience | | Remarks | |
| | | Years | Specialization | Years | Specialization | | |
| Diploma /certificate course | Food Technology / Food Engineering / Home scienc or allied sector | 5 | Bakery industry | 2 | | | |
| B.Sc./B. Tech/BE | Food Technology or Food Engineering | 3 | Bakery industry | 2 | | | |
| M.Sc./M. Tech/ME | Food Technology or Food Engineering | 2 | Bakery industry | 1 | | | |

| Assessor Certification | | | | | |
|---|--|--|--|--|--|
| Domain Certification | Platform Certification | | | | |
| Certified for Job Role: "Baking Assistant" mapped to QP: "FIC/ Q5007, 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 acceptedscoreasperMEPSCguidelinesis80%. | | | | |





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.

Assessment will be based on the concept of Independent Assessors empanelled with Assessment Agencies, identified, selected, trained and certified on Assessment techniques. These Assessors would be aligned to assess as per the laid down criteria.

Assessment Agency would conduct assessment only at the training centres of Training Partner or designated testing centers authorized by FICSI.

Ideally, the assessment will be a continuous process comprising of three distinct steps:

- A. Mid-term assessment
- B. Term/Final Assessment

Each National Occupational Standard (NOS) in the respective QPs will be assigned weightage. ThereineachPerformanceCriteriaintheNOSwillbeassignedmarksfortheoryand/orpractical based on relative importance and criticality of function.

This will facilitate preparation of question bank / paper sets for each of the QPs. Each of these papers sets/question banks created by the Assessment Agency will be validated by the industry subject matter experts through FICSI, especially with regard to the practical test and the defined tolerances, finish, accuracy etc.

The following tools are proposed to be used for final assessment:

i. Written Test: This will compriseof(i)True/FalseStatements(ii)MultipleChoiceQuestions(iii) Matching Type Questions. Online system for this will be preferred.

ii. Practical Test: This will comprise a test job to be prepared as per project briefing following appropriate working steps, using necessary tools, equipment and instruments. Through observation





it will be possible to ascertain candidate's aptitude, attention to details, quality consciousness etc. The end product will be me assured against the pre-decided MCQ filled by the Assessor to gauge the level of his skill achievements.

iii. Structured Interview: This tool will be used to assess the conceptual understanding and the behavioural aspects as regards the job role and the specific task at hand.





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 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 psycho motor 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 |
|-------|---|
| QP | Qualification Pack |
| NSQF | National Skills Qualification Framework |
| NSQC | National Skills Qualification Committee |
| NOS | National Occupational Standards |
| НАССР | Hazard Analysis and Critical Control Points |
| GMP | Good Manufacturing Practices |
| GHP | Good Hygiene Practices |