**COMPETENCY BASED CURRICULUM** 

(Duration: 2 Yrs.)

**APPRENTICESHIP TRAINING SCHEME (ATS)** 

**NSQF LEVEL-5** 



कौशल भारत - कशल भारत

# **SECTOR - FOOD PROCESSING AND PRESERVATION**



GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP
DIRECTORATE GENERAL OF TRAINING





(Revised in 2018)

**APPRENTICESHIP TRAINING SCHEME (ATS)** 

**NSQF LEVEL - 5** 

Skill India कौशल भारत-कुशल भारत

**Developed By** 

Ministry of Skill Development and Entrepreneurship Directorate General of Training

**CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE** 

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### **CONTENTS**

SI. No.	Topics	Page No.
1.	Background	1-2
2.	Training System	3-7
3.	Job Role	8
4.	NSQF Level Compliance	9
5.	General Information	10
6.	Learning Outcome	11-12
7.	Learning Outcome with Assessment Criteria	13-14
8.	Syllabus	15-20
9.	Syllabus - Core Skill	
	9.1 Core Skill – Employability Skill	21-24
10.	Details of Competencies (On-Job Training)	25
11.	List of Trade Tools & Equipment Basic Training - Annexure I	26-28
12.	Format for Internal Assessment -Annexure II	29



### 1.1 Apprenticeship Training Scheme under Apprentice Act 1961

The Apprentices Act, 1961 was enacted with the objective of regulating the programme of training of apprentices in the industry by utilizing the facilities available therein for imparting on-the-job training. The Act makes it obligatory for employers in specified industries to engage apprentices in designated trades to impart Apprenticeship Training on the job in industry to school leavers and person having National Trade Certificate(ITI pass-outs) issued by National Council for Vocational Training (NCVT) to develop skilled manpower for the industry. There are four categories of apprentices namely; trade apprentice, graduate, technician and technician (vocational) apprentices.

Qualifications and period of apprenticeship training of **trade apprentices** vary from trade to trade. The apprenticeship training for trade apprentices consists of basic training followed by practical training. At the end of the training, the apprentices are required to appear in a trade test conducted by NCVT and those successful in the trade tests are awarded the National Apprenticeship Certificate.

The period of apprenticeship training for graduate (engineers), technician (diploma holders and technician (vocational) apprentices is one year. Certificates are awarded on completion of training by the Department of Education, Ministry of Human Resource Development.

### 1.2 Changes in Industrial Scenario

Recently we have seen huge changes in the Indian industry. The Indian Industry registered an impressive growth during the last decade and half. The number of industries in India have increased manifold in the last fifteen years especially in services and manufacturing sectors. It has been realized that India would become a prosperous and a modern state by raising skill levels, including by engaging a larger proportion of apprentices, will be critical to success; as will stronger collaboration between industry and the trainees to ensure the supply of skilled workforce and drive development through employment. Various initiatives to build up an adequate infrastructure for rapid industrialization and improve the industrial scenario in India have been taken.

### 1.3 Reformation

The Apprentices Act, 1961 has been amended and brought into effect from 22<sup>nd</sup> December, 2014 to make it more responsive to industry and youth. Key amendments are as given below:

 Prescription of number of apprentices to be engaged at establishment level instead of trade-wise.

- Establishment can also engage apprentices in optional trades which are not designated, with the discretion of entry level qualification and syllabus.
- Scope has been extended also to non-engineering occupations.
- Establishments have been permitted to outsource basic training in an institute of their choice.
- The burden of compliance on industry has been reduced significantly.



### 2.1 GENERAL

Directorate General of Training (DGT) under Ministry of Skill Development & Entrepreneurship offers range of vocational training courses catering to the need of different sectors of economy/ Labour market. The vocational training programmes are delivered under aegis of National Council of Vocational Training (NCVT). Craftsman Training Scheme (CTS) and Apprenticeship Training Scheme (ATS) are two pioneer programmes of NCVT for propagating vocational training.

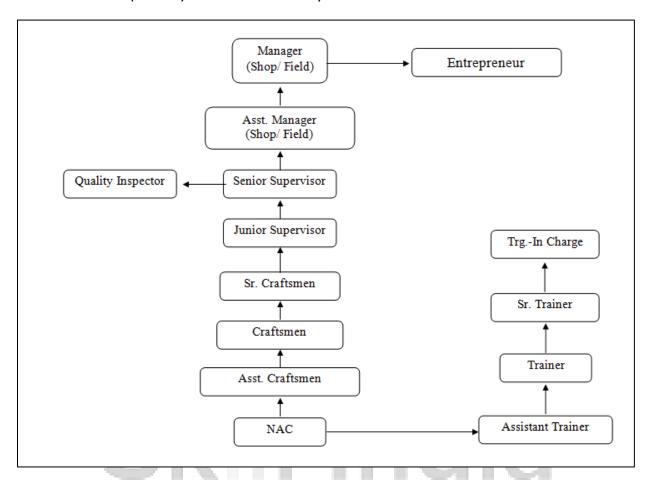
FOOD PRODUCTION (GENERAL) trade under ATS is one of the most popular courses delivered nationwide through different industries. The course is of two years (02 Blocks) duration. It mainly consists of Domain area and Core area. In the Domain area Trade Theory & Practical impart professional - skills and knowledge, while Core area - and Employability Skills imparts requisite core skills & knowledge and life skills. After passing out the training programme, the trainee is being awarded National Apprenticeship Certificate (NAC) by NCVT having worldwide recognition.

### Broadly candidates need to demonstrate that they are able to:

- Read & interpret technical parameters/document, plan and organize work processes, identify necessary materials and tools;
- Perform task with due consideration to safety rules, accident prevention regulations and environmental protection stipulations;
- Apply professional skill, knowledge, core skills & employability skills while performing jobs and solve problem during execution.
- Check the job/assembly as per drawing for functioning, identify and rectify errors in job/assembly.
- Document the technical parameters related to the task undertaken.

### **2.2 CAREER PROGRESSION PATHWAYS:**

• Indicative pathways for vertical mobility.



### **2.3 COURSE STRUCTURE:**

Table below depicts the distribution of training hours across various course elements during a period of two years (*Basic Training and On-Job Training*): -

### Total training duration details: -

Time	1-3	4-12	13-15	16-24
(in months)				
Basic Training	Block- I		Block – II	
Practical Training		Block – I		Block – II
(On - job training)				

### A. Basic Training

For 02 yrs. Course (Non-Engg.):- **Total 03 months:** 03 months in 1<sup>st</sup>yr. only For 01 yr. Course (Non-Engg):- **Total 03 months:** 03 months in 1<sup>st</sup>yr.

SI. No.	Course Element	Total Notional Training Hours
		For 02 yrs. course
1	Professional Skill (Trade Practical)	270
2	Professional Knowledge (Trade Theory)	120
3	Employability Skills	110
	Total (including Internal Assessment)	500

### B. On-Job Training:-

For 02 yrs. Course (Non-Engg.) :- (Total: 9 months in 1st yr.+12months in 2nd yr.)

4.4

Notional Training Hours for On-Job Training: 3640 Hrs.

### C. Total training hours:-

Duration	Basic Training	On-Job Training	Total
For 02 yrs. Course (Non-Engg.)	500 hrs.	3640 hrs.	4140 hrs.
For 01 yr. Course (Non-Engg.)	500 hrs.	2080 hrs.	2580 hrs.

### **2.4 ASSESSMENT & CERTIFICATION:**

The trainee will be tested for his skill, knowledge and attitude during the period of course and at the end of the training programme as notified by Govt of India from time to time. The Employability skills will be tested in first two semesters only.

a) The **Internal assessment** during the period of training will be done by **Formative assessment method** by testing for assessment criteria listed against learning outcomes. The training institute have to maintain individual *trainee portfolio* as detailed in assessment guideline. The marks of internal assessment will be as per the template (Annexure – II).

b) The final assessment will be in the form of summative assessment method. The All India Trade Test for awarding NAC will be conducted by NCVT on completion of course as per guideline of Govt of India. The pattern and marking structure is being notified by govt of India from time to time. The learning outcome and assessment criteria will be basis for setting question papers for final assessment. The examiner during final examination will also check individual trainee's profile as detailed in assessment guideline before giving marks for practical examination.

### 2.4.1 PASS REGULATION

The minimum pass percent for Practical is 60% & minimum pass percent for Theory subjects 40%. The candidate pass in each subject conducted under all India trade test.

### 2.4.2 ASSESSMENT GUIDELINE

Appropriate arrangements should be made to ensure that there will be no artificial barriers to assessment. The nature of special needs should be taken into account while undertaking assessment. Due consideration should be given while assessing for team work, avoidance/reduction of scrap/wastage and disposal of scarp/wastage as per procedure, behavioral attitude, sensitivity to environment and regularity in training. The sensitivity towards OSHE and self-learning attitude are to be considered while assessing competency.

Assessment will be evidence based comprising the following:

- Job carried out in labs/workshop
- Record book/ daily diary
- Answer sheet of assessment
- Viva-voce
- Progress chart
- Attendance and punctuality
- Assignment
- Project work

Evidences of internal assessments are to be preserved until forthcoming semester examination for audit and verification by examination body. The following marking pattern to be adopted while assessing:

Performance Level	Evidence	
(a) Weightage in the range of 60 -75% to be	allotted during assessment	
For performance in this grade, the candidate with occasional guidance and showing due regard for safety procedures	<b>o</b>	

and practices, has produced work which demonstrates attainment of an acceptable standard of craftsmanship.

- Below 70% tolerance dimension/accuracy achieved while undertaking different work with those demanded by the component/job/set standards.
- A fairly good level of neatness and consistency in the finish
- Occasional support in completing the project/job.

### (b) Weightage in the range of above 75% - 90% to be allotted during assessment

For this grade, the candidate, with little guidance and showing due regard for safety procedures and practices, has produced work which demonstrates attainment of a reasonable standard of craftsmanship.

- Good skill levels in the use of hand tools, machine tools and workshop equipment
- 70-80% tolerance dimension/accuracy achieved while undertaking different work with those demanded by the component/job/set standards.
- A good level of neatness and consistency in the finish
- Little support in completing the project/job

### (c) Weightage in the range of above 90% to be allotted during assessment

For performance in this grade, the candidate, with minimal or no support in organization and execution and with due regard for safety procedures and practices, has produced work which demonstrates attainment of a high standard of craftsmanship.

- High skill levels in the use of hand tools, machine tools and workshop equipment
- Above 80% tolerance dimension/accuracy achieved while undertaking different work with those demanded by the component/job/set standards.
- A high level of neatness and consistency in the finish.
- Minimal or no support in completing the project.

### **Brief description of Job roles:**

After completion of the Apprenticeship Training in Food Production (General)the trainees will be able to do/perform

Identifying & selecting raw material. Usage of kitchen related equipment. Safely handling food (minimize, damage / loss) while processing. Pre-prep of raw material for cooking. Skilled with all cooking methods. Food presentation & serving at the right temperatures. Knowledge of nutrition & food allergies. Basic usage of computers / tablets. Basic planning & utilization of resources (Raw material, time, manpower). Knowledge & application of HACCP / ISO requirements Personality / Employability Knowledge & Skills. Appropriate Personal Hygiene & Grooming practices. Punctuality & Respect towards others' time. Good interpersonal skills and respect all work colleagues (personal conduct). Good housekeeping of work area. Safety practices while handling tools & machinery. Basic verbal & written communication skills. Practice basic arithmetic including basic commercial mathematics. Wastage — practice Reuse, Recycle and Safe Disposal. Optimum utilization and conservations of natural resources (water, heat, electricity, fuel). Knowledge & Demonstrate basic first aid (in case of emergency). Knowledge & Demonstrate basic fire safety (use of extinguishers)

### **Reference NCO:**

NCO 2015: - 3122.6900



ARREST THE

NSQF level for FOOD PRODUCTION (GENERAL) trade under ATS: Level 5

As per notification issued by Govt. of India dated- 27.12.2013 on National Skill Qualification Framework total 10 (Ten) Levels are defined.

Each level of the NSQF is associated with a set of descriptors made up of five outcome statements, which describe in general terms, the minimum knowledge, skills and attributes that a learner needs to acquire in order to be certified for that level.

Each level of the NSQF is described by a statement of learning outcomes in five domains, known as level descriptors. These five domains are:

- a. Process
- b. Professional knowledge,
- c. Professional skill,
- d. Core skill and
- e. Responsibility.



The Broad Learning outcome of FOOD PRODUCTION (GENERAL) trade under ATS mostly matches with the Level descriptor at Level-5.

The NSQF level-5 descriptor is given below:

LEVEL	Process required	Professional knowledge	Professional skill	Core skill	Responsibility
Level 5	Job that requires well developed skill, with clear choice of procedures in familiar context.	processes and general concepts, in a field of work or study	required to accomplish tasks and solve		Responsibility for own work and Learning and some responsibility for other's works and learning.

Name of the Trade	FOOD PRODUCTION (GENERAL)	
NCO - 2015	3122.6900	
NSQF Level	Level – 5	
Duration of Apprenticeship		
Training		
(Basic Training + On-Job	Two years (02 Blocks each of one year duration).	
Training)		
Duration of Basic Training	a) Block –I: 3 months	
	b) Block – II: 3 months	
	Total duration of Basic Training: 6 months	
<b>Duration of On-Job Training</b>	a) Block–I: 9 months	
	b) Block–II: 9 months	
	Total duration of Practical Training: 18 months	
<b>Entry Qualification</b>	Passed 8th class examination or its equivalent.	
Selection of Apprenticeship	The apprentices will be selected as per Apprenticeship Act	
	amended time to time.	
Instructors Qualification for	As per ITI instructors qualifications as amended time to time for	
Basic Training	the specific trade.	
Infrastructure for basic training	As per related trade of ITI.	
Examination	The internal examination/ assessment will be held on	
	completion of each block.	
	Final examination for all subjects will be held at the end of	
	course and same will be conducted by NCVT.	
Rebate to Ex-ITI Trainees	01 year	
CTS trades eligible for FOOD	1. FOOD PRODUCTION (GENERAL)	
PRODUCTION (GENERAL)		
Apprenticeship		

### *Note:*

- Industry may impart training as per above time schedule for different block, however this is not fixed. The industry may adjust the duration of training considering the fact that all the components under the syllabus must be covered. However the flexibility should be given keeping in view that no safety aspects is compromised.
- For imparting Basic Training the industry to tie-up with ITIs having such specific trade and affiliated to NCVT.

### **6.1 GENERIC LEARNING OUTCOME**

The following are minimum broad Common Occupational Skills/ Generic Learning Outcome after completion of the FOOD PRODUCTION (GENERAL) course of 02 years duration under ATS.

### Block I & II:-

- 1. Recognize & comply safe working practices, environment regulation and housekeeping.
- 2. Select and ascertain measuring instrument and measure dimension of components and record data.
- 3. Explain the concept in productivity, quality tools, and labour welfare legislation and apply such in day to day work to improve productivity & quality.
- 4. Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using available resources.
- 5. Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth.
- 6. Plan and organize the work related to the occupation.

### 6.2 SPECIFIC LEARNING OUTCOME

### Block - I

- 1. Identify Utensils & equipments and chemical and sanitizing agents used for kitchen tools and equipments.
- 2. Identify spices and herbs
- 3. Demonstrate cooking methods with specific utensils and explain effect of heat on foods.
- 4. Prepare chutney and dips by using appropriate machines and kitchen tools.
- 5. Prepare Indian breads and Tandoor dishes.
- 6. Prepare basic Indian gravies such as Tomato, Onion, Cashew and Yoghurt.
- 7. Prepare dishes with veg. gravy.
- 8. Prepare rice, pulaos, Veg biryanis and daals by using kitchen tools
- Prepare Indian sweet dishes such as Burfee, Balushahi, Halwas, Gulabjamun, jalabi, Gujias, phirnee and Rasgulla.
- 10. Prepare different types of regional foods.

### Block - II

- 11. Prepare and explain stocks, soups and sauces by using kitchen tools.
- 12. Prepare hor d'oeuvres, canapés and sandwiches.
- 13. Prepare and cook vegetables for European cuisine.

- 14. Prepare farinaceous products as spaghetti & macroni.
- 15. Prepare different types of Regional foods.
- 16. Prepare and cook rice, beans & pulses, pasta and pasta sauces.
- 17. Prepare bakery and confectionery products such as breakfast breads, waffles & pancakes, cookies and basic calligraphy for cake decoration.
- 18. Prepare snacks, pickles, preserve, chutney, sauces and raitha.
- 19. Explain food safety standards and food adulteration.

NOTE: Learning outcomes are reflection of total competencies of a trainee and assessment will be carried out as per assessment criteria.



# 7. LEARNING OUTCOME WITH ASSESSMENT CRITERIA

GENERIC LEARNING OUTCOME			
LEARNING OUTCOMES	ASSESSMENT CRITERIA		
Recognize & comply safe working practices, environment regulation and housekeeping.	<ul> <li>1.1 Follow and maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements.</li> <li>1.2 Recognize and report all unsafe situations according to site policy.</li> </ul>		
	1.3 Identify and take necessary precautions on fire and safety hazards and report according to site policy and procedures.		
	1.4 Identify, handle and store / dispose off dangerous/unsalvageable goods and substances according to site policy and procedures following safety regulations and requirements.		
	1.5 Identify and observe site policies and procedures in regard to illness or accident.		
	1.6 Identify safety alarms accurately.		
	1.7 Report supervisor/ Competent of authority in the event of accident or sickness of any staff and record accident details correctly according to site accident/injury procedures.		
SIZ	1.8 Identify and observe site evacuation procedures according to site policy.		
21	1.9 Identify Personal Productive Equipment (PPE) and use the same as per related working environment.		
कीशल	1.10 Identify basic first aid and use them under different circumstances.		
9/1/101	1.11 Identify different fire extinguisher and use the same as per requirement.		
	1.12 Identify environmental pollution & contribute to avoidance of same.		
	1.13 Take opportunities to use energy and materials in an environmentally friendly manner		
	1.14 Avoid waste and dispose waste as per procedure		
	1.15 Recognize different components of 5S and apply the same in the working environment.		
2. Explain the concept in productivity, quality tools,	2.1 Explain the concept of productivity and quality tools and apply during execution of job.		

and labour welfare legislation and apply such in day to day work to improve productivity & quality.	<ul> <li>2.2 Understand the basic concept of labour welfare legislation and adhere to responsibilities and remain sensitive towards such laws.</li> <li>2.3 Knows benefits guaranteed under various acts</li> </ul>
3. Explain energy conservation, global warming and pollution and contribute in day to day work by optimally using	3.1 Explain the concept of energy conservation, global warming, pollution and utilize the available recourses optimally & remain sensitive to avoid environment pollution.
available resources.	3.2 Dispose waste following standard procedure.
4. Explain personnel finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth.	<ul> <li>4.1 Explain personnel finance and entrepreneurship.</li> <li>4.2 Explain role of Various Schemes and Institutes for self-employment i.e. DIC, SIDA, SISI, NSIC, SIDO, Idea for financing/ non financing support agencies to familiarizes with the Policies /Programmes &amp; procedure &amp; the available scheme.</li> <li>4.3 Prepare Project report to become an entrepreneur for submission to financial institutions.</li> </ul>
5. Plan and organize the work related to the occupation.	5.1 Use documents, drawings and recognize hazards in the work site.
	5.2 Plan workplace/ assembly location with due consideration to operational stipulation
JK.	5.3 Communicate effectively with others and plan project tasks
	5.4 Assign roles and responsibilities of the co-trainees for execution of the task effectively and monitor the same.
SPECIFIC OUTCOME	

### Block-I & II (Section:10 in the competency based curriculum)

Assessment Criteria i.e. the standard of performance, for each specific learning outcome mentioned under block - I & block - II (section: 10) must ensure that the trainee achieves well developed skill with clear choice of procedure in familiar context. Assessment criteria should broadly cover the aspect of **Planning** (Identify, ascertain, estimate etc.); **Execution** (perform, illustration, demonstration etc. by applying 1) a range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying basic methods, tools, materials and information 2) Knowledge of facts, principles, processes, and general concepts, in a field of work or study 3) Desired Mathematical Skills and some skill of collecting and organizing information, communication) and Checking/ Testing to ensure functionality during the assessment of each outcome. The assessments parameters must also ascertain that the candidate is responsible for own work and learning and some responsibility for other's work and learning.

# BASIC TRAINING (Block – I)

**Duration: (03) Three Months** 

Week No.	Professional Skills	Professional Knowledge
1	LPG Stove /Cooking range, Operation of oven set the temperature requirement, Electric Toaster Mixer/Grinder Care and Cleaning or Mixer Grinder, Food Processor and Water Purifier set care and maintenance.	Introduction to Catering/Food Industry. History of Modern Cookery. Farm to Table – The entire supply chain. Different types of catering establishments
2	Identification of kitchen tools & instruments	Knowledge about small, medium and large
	and it's specific usage	instruments, Uses of instruments.
	(Knives in particular)	Recommended metals for kitchen equipments and their standards (FSSAI), Common brands & manufacturers.  Approximate costs. Safety procedure in handling Equipment
	Identification of basic processing / cooking	Knowledge about small, medium and large
	equipment (light & heavy)	processing / cooking equipment.
		Recommended metals for kitchen equipments and their standards (FSSAI), Common brands & manufacturers.  Approximate costs
	Metals used in cooking – Stainless steel	Importance of avoiding other metals
	Special uses of Copper & Brass	Benefits of using Stainless Steel

	Specific use & benefits of Copper, Brass.	
Cleaning, maintaining and storage of tools &	Cleaning & sanitizing agents and their usage.	
equipment	Cleaning of kitchen and preparation for work-	
	mise-en-place. Recommended chemicals for	
	cleaning and sanitation and their usage.	
A) Personal hygienic: Safety of different	Introduction to basic food and personal	
body parts.	safety measures.	
Food handler's hygienic protective clothing.	Biological, chemical & Physical	
B) Working are a hygiene procedure and its	adulteration/spoilage.	
importance.	Physical, chemical and Biological hazards in	
C) Fire Hazards and first aid contents.	food.	
	Various textures, consistencies	
	Techniques used in pre-preparation and	
	preparation of food items	
Basic hygiene practices to be observed in	Personal hygiene	
kitchen area	Grooming requirements & recommended	
	scheduled to be practiced, care and safety of	
	body and its importance, Food handlers	
<u> </u>	hygienic :	
	Protective clothing.	
	Working area hygiene and its importance.	
Safety practices to be observed in kitchen	Handling and Safety rules for using different	
- 3 K	types of knives and other kitchen equipment.	
	Introduction to basic first aid theory and	
4.3	Knowledge about treating the minor injuries-	
कौशल भारत-	• Cuts • scalds	
	• burns	
3-6 <b>Demonstrations</b>	Identification of basic food raw material	
Preparation of different food Ingredients	through photographs/ Videos, samples.	
(Mise-en-place)		
Washing & cleaning	Classification of raw materials	
Separation of edible & non-edible parts	Fruits & Vegetables ,Cereals & Pulses, Spices,	
Peeling, coring, shelling, Shredding	Condiments Herbs & additives	
blanching, grading, sorting, Grinding	Types and identification of the same.	
Pounding and chopping		
	1	

	Cutting (mainly vegetable & fr	uits):	Classification of methods of cutting for					
	Brunoise, Chiffonade, Jardin	ere. Julienne.	different fruits and vegetables.					
	Macedoine, Paysanne, Mati							
	Paring, Turned, Wedges, Allu	, ,						
	_	Carrots and						
	Potatoes							
	Preparation of paneer/cheese	from milk.						
	Cutting of paneer/cheese for v	aries dishes.	To study the various types of Indigenous					
	Preparation of Burfee, Balus	hahi, Halwas,	desserts sweet dishes and indigenous food					
	Gulabjamun, jalabi, Gujias,	phirnee and	products.					
	Rasgulla.							
	Preparation of different types	of indigenous						
	food products.	476	hv					
7	Method of mixing foods:		Preparation and identification of emulsions,					
	5	L = 90 X \ \	blends, mixes etc.					
	G, G.	Emulsification,						
	Whipping, Folding, Beating	g, Creaming,	Accompaniment sand Garnishes.					
	Kneading, Marinating.		COED					
8-9	Demonstration:		A Knowledge about methods of preparation					
			of salads and salad dressing					
	Uncooked & Cooked Salads		!					
	Vegetable Salads,		ndla					
	Leafy Salads, Fruit Salads,		HUIG					
	Whole meal Salads,							
	Indian green salad, Salad Dressings:	ारत -	कुशल भारत					
	Vinaigrette Dressing,							
	Oil based dressings,							
	Citrus juice dressings,							
	Derivatives,							
10-11	Demonstration of cooking me	thods:	Methods of Cooking & effect of heat on					
	Baking		foods					
	Boiling		Dry Heat, Moist Heat and Microwave					
	Poaching		Heating.					
	Stewing		Cooking by medium of Fat, Conduction &					
1			Convection Heating.					

	Frying	
	Griddling	
	Grilling	
	Roasting	
	Saute / Stir Fry	
	To be demonstrated on (as applicable):	
	, ,	
	Fruits & Vegetable	
	Cereals & Pulses	
12-13	Preparation of Rice, Pulaos, Veg Biryanis	Regional Cuisine in India.
	&Daals - 3 preparations in each	List of utensils & equipment – Material, uses,
		cleaning & storage.
		Spices & Herbs – Identification & Uses.
		Effect of heating on various food ingredients.
	1 (57)	Rice, Pulaos, Veg Biryanis & Daals.
	<del>                                    </del>	Tandoor Dishes (includes different seasoning
	0	on tandoori dishes. Lighting& controlling and
		operations of a tandoor.
	Demonstrations:	To study various types of basic Indian gravies.
	Basic Indian Gravy Base	Tempering (Tadka) & Garnishes.
	Tomato & Onion, Cashew, Tomato, Yoghurt,	To study various types of basic Indian gravies.
	Yellow, Makni, White, & Brown Gravy.	Tempering (Tadka) & Garnishes.
	Final finish & presentation of dishes	ح زام م
	Assessment/Examination 03days	

### NOTE: -

More emphasis to be given on video/real-life pictures during theoretical classes. Some real-life pictures/videos of related industry operations may be shown to the trainees to give a feel of Industry and their future assignment.

### **BASIC TRAINING (Block – II)**

**Duration: (03) Three Months** 

Week	Professional Skills	Professional Knowledge				
No.	Troressional Skills	Trotessional knowledge				
1-3	Demonstrations:	Stocks, Soups & Sauces				
	Stocks, Soups & Sauces	Recipes:				
	Demonstration:	Vegetable Stock Types of stock, storage, uses of stocks. Classification of Soups:				
	Vegetable Stock,					
	Demonstration of one vegetable soups in each					
	type.	Thick –				
	Demonstration of one vegetable sauce in each	Puree				
	type & its derivative.	Cream				
		Chowder				
	1 7557	Thin – Unpassed				
		Broths				
	164	Thin – Passed				
		Cold & International				
		Sauces				
	A CONTRACTOR OF THE PARTY OF TH	Mayonnaise				
		Veloute				
		Tomato (Kitchen) Sauce				
		Derivatives of Basic Sauces				
4-5	Hordoeuvres, Canapes, Sandwiches	Hordoeuvres, Canapes,				
	Demonstration on 6 varieties of each type.	Sandwiches: open, toasted, grilled and multi-				
	506	layered sandwiches				
6-8	Preparation & Cooking of Vegetables	Vegetables:-				
	European Cuisine	Classification, Selection & assessing quality,				
	Potatoes – 3 varieties	Season of availability,				
	Vegetables – 3 varieties	Effect of heat on different vegetables in acid/alkaline medium and reaction with different				
	Demonstration and preparation of Spaghetti	metals.				
	& macroni.	To study about the various type farinaceous				
		products.				
		Yield and Wastage.				
		Weights and Measures.				
0.40	Daniel de la contraction de la	Different brands available in market.				
9-10	Preparation of different types of snacks,	Different methods of preparation, ingredients,				
	pickles, preserves & chutney, sauces and	equipments/utensils involved in the preparation of				
	Raita.	snacks, pickles, preserve & chutney, sauces and				
<u> </u>						

			Raita.					
11	Preparation & Cooking of Cereals,	Farinaceous	Identification & Selection of Cereals and pulses.					
	and Pulses		Varieties of pasta and methods of preparation.					
	Cooking of Rice,							
	Cooking of beans & pulses,							
	Cooking of Pasta – 2 varieties,							
	Cooking of Pasta sauces – 4 varieti	ies						
12	Bakery & Confectionery		Basic Dough & Pastes.					
	5 finished dishes from each base d	lough &	Bread Dough & its types.					
	pastes,		Puff paste, Choux paste, Short crust paste, Danish					
	Breakfast breads – 10 varieties		paste,					
	Waffles & Pancakes		Cakes: Pound Cake, Cheese Cake, Puddings:					
	Cookies							
	Banana fritter,		Banana fritter, Payasam, Malpura, Rice pudding,					
	Payasam,							
	Malpura, Rice pudding,							
	Basic Calligraphy for cake decorati	-	la.					
13	Preparation of different types of R	egional	Balancing of recipes.					
	foods—2 Varieties each.		Standardization of recipes, Yield,					
		li de la la	Menu compilation, Menu planning,					
			Portion control with brief study of how portions					
			are worked out,					
			Purchasing specification.					
	4.5		Quality control, indenting and costing					
	न्होंशन भ	IJd-	Rechauffe.					
	4212161 7	Assessment/E	xamination 03days					

## NOTE: -

• More emphasis to be given on video/real-life pictures during theoretical classes. Some real-life pictures/videos of related industry operations may be shown to the trainees to give a feel of Industry and their future assignment.

### 9.1 EMPLOYABILITY SKILLS

(DURATION: - 110 HRS.)

	Block – I									
	(Duration – 55 hrs.)									
1. English Literacy		Duration: 20 Hrs. Marks: 09								
Pronunciation	Accentuation (mode of pronunciation) on simple (use of word and speech)	words, Diction								
Functional Grammar	Transformation of sentences, Voice change Spellings.	, Change of tense,								
Reading	Reading and understanding simple sentences a environment	about self, work and								
Writing	Construction of simple sentences Writing simple English									
Speaking / Spoken English	Speaking with preparation on self, on family, on friends/ classmates, on know, picture reading gain confidence through role-playing and discussions on current happening job description, asking about someone's job habitual actions. Cardinal (fundamental) numbers ordinal numbers. Taking messages, passing messages on and filling in message forms Greeting and introductions office hospitality, Resumes or curriculum vita essential parts, letters of application reference to previous communication.									
2. I.T. Literacy		Duration: 20 Hrs. Marks: 09								
Basics of Computer	Introduction, Computer and its application peripherals, Switching on-Starting and shutting d									
Computer Operating System	Basics of Operating System, WINDOWS, The user interface of Windows OS, Create, Copy, Move and delete Files and Folders, Use of External memory like pen drive, CD, DVD etc, Use of Common applications.									
Worksheet  Basic operating of Word Processing, Creating, opening and close Worksheet  Documents, use of shortcuts, Creating and Editing of Text, Format the Text, Insertion & creation of Tables. Printing document. Basics of Excel worksheet, understanding basic commands, crea simple worksheets, understanding sample worksheets, use of sim formulas and functions, Printing of simple excel sheets.										

Computer Networking and Internet	Basic of computer Networks (using real life exalocal Area Network (LAN), Wide Area Network (Concept of Internet (Network of Networks), Meaning of World Wide Web (WWW), Web Bropage and Search Engines. Accessing the Interne Downloading and Printing Web Pages, Opening use of email. Social media sites and its implication Information Security and antivirus tools, Information Security, Awareness of IT - ACT, typening to the security of the security	ork (WAN), Internet, owser, Web Site, Web t using Web Browser, an email account and n. Do's and Don'ts in oes of cyber crimes.
3. Communication Skills		Duration: 15 Hrs. Marks: 07
Introduction to Communication Skills	Communication and its importance Principles of Effective communication Types of communication - verbal, non verbal, on phone. Non verbal communication -characteristics language Body language Barriers to communication and dealing with barr Handling nervousness/ discomfort.	s, components-Para-
Listening Skills	Listening-hearing and listening, effective lister effective listening guidelines for effective lister Triple- A Listening - Attitude, Attention & Adjustr Active Listening Skills.	ning.
Motivational Training	Characteristics Essential to Achieving Success. The Power of Positive Attitude. Self awareness Importance of Commitment Ethics and Values Ways to Motivate Oneself Personal Goal setting and Employability Planning	
Facing Interviews	Manners, Etiquettes, Dress code for an interview Do's & Don'ts for an interview.	1
Behavioral Skills	Problem Solving Confidence Building Attitude	
	Block – II Duration – 55 hrs.	
4. Entrepreneurship Skil		Duration: 15 Hrs.

		Marks : 06						
Concept of Entrepreneurship	Entrepreneur - Entrepreneurship - Enterprises:-Conceptual issue Entrepreneurship vs. management, Entrepreneurial motivation. Performance & Record, Role & Function of entrepreneurs in relation to the enterprise & relation to the economy, Source of business ideas, Entrepreneurial opportunities, The process of setting up a business.							
Project Preparation & Marketing analysis	Qualities of a good Entrepreneur, SWOT and Risk application of PLC, Sales & distribution Management Small Scale & Large Scale Business, Mar of marketing, Publicity and advertisement, Marketing	agement. Different ket Survey, Method ting Mix.						
Institutions Support	Preparation of Project. Role of Various Schemes a employment i.e. DIC, SIDA, SISI, NSIC, SIDO, Ide financing support agencies to familiarizes /Programmes & procedure & the available scheme	a for financing/ non with the Policies						
Investment Procurement	Project formation, Feasibility, Legal formalitiestimation & Costing, Investment procedure - Banking Processes.							
5. Productivity		Duration: 10 Hrs.  Marks: 05						
Benefits	Personal / Workman - Incentive, Production linked Improvement in living standard.	d Bonus,						
Affecting Factors	Skills, Working Aids, Automation, Environment, improves or slows down.	Motivation - How						
Comparison with developed countries	Comparative productivity in developed cour Japan and Australia) in selected industries e.g. Mining, Construction etc. Living standards of those	/Janufacturing, Steel,						
Personal Finance Management	Banking processes, Handling ATM, KYC reginant handling, Personal risk and Insurance.	stration, safe cash						
6. Occupational Safety,	Health and Environment Education	Duration: 15 Hrs. Marks: 06						
Safety & Health	Introduction to Occupational Safety and Health i and health at workplace.	mportance of safety						
Occupational Hazards	Basic Hazards, Chemical Hazards, Vibroacoustic Hazards, Electrical Hazards, Thermal Hazards. Occupational hygienic, Occupational Diseases prevention.	Occupational health,						
Accident & safety	Basic principles for protective equipment. Accident Prevention techniques - control of a	ccidents and safety						

	measures.								
First Aid	Care of injured & Sick at the workplaces, First-Aid & Transportation of sick person.								
Basic Provisions	Idea of basic provision legislation of India.								
	safety, health, welfare under legislative of India.								
Ecosystem	·	ntroduction to Environment. Relationship between Society and Environment, Ecosystem and Factors causing imbalance.							
Pollution	Pollution and pollutants including liquid, gaseous, waste.	, solid and hazardous							
Energy Conservation	Conservation of Energy, re-use and recycle.								
Global warming	Global warming, climate change and Ozone layer	depletion.							
Ground Water	Hydrological cycle, ground and surface water, Conservation and Harvesting of water.								
Environment	Right attitude towards environment, Maintenance of in -house environment.								
7. Labour Welfare Legis	lation	Duration: 05 Hrs. Marks: 03							
Welfare Acts	Benefits guaranteed under various acts- Factories Act, Employees State Insurance Act (ESI), Pa Employees Provident Fund Act, The Workmen's co	ayment Wages Act,							
8. Quality Tools		Duration: 10 Hrs. Marks: 05							
Quality Consciousness	Meaning of quality, Quality characteristic.	रत							
Quality Circles	Definition, Advantage of small group activity, objectives of quality Circle, Roles and function of Quality Circles in Organization, Operation of Quality circle. Approaches to starting Quality Circles, Steps for continuation Quality Circles.								
Quality Management System	Idea of ISO 9000 and BIS systems and its imporqualities	tance in maintaining							
House Keeping	Purpose of House-keeping, Practice of good House	ekeeping.							
Quality Tools	Basic quality tools with a few examples.								

### 10. DETAILS OF COMPETENCIES (ON-JOBTRAINING)

The **competencies/ specific outcomes** on completion of On-Job Training are detailed below: -

### Block - I (On-the-Job Training) (9 Months)

- 1. Identify Utensils & equipments and chemical and santizing agents used for kitchen tools and equipments.
- 2. Identify spices and herbs
- 3. Demonstrate cooking methods with specific utensils and explain effect of heat on foods.
- 4. Prepare chutney and dips by using appropriate machines and kitchen tools.
- 5. Prepare Indian breads and Tandoor dishes.
- 6. Prepare basic Indian gravies such as Tomato, Onion, Cashew and Yoghurt.
- 7. Prepare dishes with veg. gravy.
- 8. Prepare rice, pulaos, Veg biryanis and daals by using kitchen tools
- 9. Prepare Indian sweet dishes such as Burfee, Balushahi, Halwas, Gulabjamun, jalabi, Gujias, phirnee and Rasgulla.
- 10. Prepare different types of regional foods.

### Block - II (On-the-Job Training) (9 Months)

- 11. Prepare and explain stocks, soups and sauces by using kitchen tools.
- 12. Prepare hor d'oeuvres, canapés and sandwiches.
- 13. Prepare and cook vegetables for European cuisine.
- 14. Prepare farinaceous products as spaghetti & macroni.
- 15. Prepare different types of Regional foods.
- 16. Prepare and cook rice, beans & pulses, pasta and pasta sauces.
- 17. Prepare bakery and confectionery products such as breakfast breads, waffles & pancakes, cookies and basic calligraphy for cake decoration.
- 18. Prepare snacks, pickles, preserve, chutney, sauces and raitha.
- 19. Explain food safety standards and food adulteration.

### Note:

- 1. Industry must ensure that above mentioned competencies are achieved by the trainees during their on job training.
- 2. In addition to above competencies/ outcomes industry may impart additional training relevant to the specific industry.

## INFRASTRUCTURE FOR PROFESSIONAL SKILL & PROFESSIONAL KNOWLEDGE

FOOD PRODUCTION (GENERAL)									
LIST OF TOOLS AND EQUIPMENT for Basic Training (For 20 Apprentices)									
A: TRAINEES TOOL KIT:-									
SI.	Name of the items	Quantity							
No.	Name of the items	Quantity							
1.	Knife Kit – Chef's Knife Filet Knife Paring Knife Peelers Knife Sharpeners	1 each							
2.	Wiping Cloth	3 Sets (2 Nos.)							
3.	Apron	3 Nos.							
4.	Kitchen Shoes (slip on, round front, anti slip)	2 Pairs							
5.	Head/Beard mesh cap	2 pairs							
Trainin	g Kitchen								
S. No.	Equipment	Essential or Desirable							
6.	Working tables (Stainless steel food grade)	E							
7.	L.P. Gas Cooking Range	E							
8.	Oven, toaster and griller	E							
9.	Induction Plate	E							
10.	Tandoor and Skewer	E							
11.	Cooking Range (High Pressure)	E							
12.	Griddle (Cooking plate)	E							
13.	Dry Store	D							
14.	Refrigerator and Deep Freezer	D							
15.	Black Board	D							
16.	Trainer's Table	D							
17.	Required Electric, Gas Connections, Lighting & Air Conditioning	D							
18.	Dish Wash Area with required Sink & water supply	E							
19.	Pot Wash Area with required water supply	Е							
20.	Grinding Stone	E							
21.	Coconut Grater	D							
22.	Grinder Machine	D							
23.	Blender/Mixer	D							

25. Dough Mixer  26. Weighing Balance  27. Chopping Boards - Plastic with HACCP Colour Coding  28. Cutting Knives (Full Set) (All Types)  29. Frying Pan-Non-Stick/Small/Medium/Large  30. Kadai-Large/Small (Non stick induction)  31. Heavy Bottom Pan Small/Big  32. Aluminum Degchi-15Ltr./12 Ltr.  28. Cooker-1 Ltr. / 2 Ltr.,  38. Cooker-1 Ltr. / 2 Ltr.,  39. Strainers-Conical/Strainers)  30. Strainers-Conical/Strainers)  31. Steel Bowls-Small/Medium/Big  29. End Strainers-Conical/Strainers)  31. Steel Bowls-Small/Medium/Big  32. Louder  33. Steel Bowls-Small/Medium/Big  34. Wok (Chinese Kadai)  35. Cooker-1 Ltr. / 2 Ltr.,  36. Strainers-Conical/Strainers)  37. Steel Bowls-Small/Medium/Big  8 E  39. Baking Tray  40. Holders(Tongs/bowl)  41. Saucepan Large/small  42. Plastic Trays-Big/Small  43. Pie Dish  44. Steel Plates  45. Containers (For keeping dry items) (Plastic/Steel)  46. Serving dish  47. Bread, Cake & assorted moulds  48. Roiling Pin and Roiling Base  49. Mandolin Grater  49. Mandolin Grater  50. Wooden Spatula  51. Perforated Spoon  52. Steel Silcer  53. Steel Basin  54. Steel Basin  55. Steel Spoons  56. Steel Spoons  57. Balloon Whisk  58. Measuring Jars  59. Digital Thermometers  60. Dustbins  61. Chart denoting the Do's' and Don'ts Kitchen  62. First Aid Kit and Fire Extinguishers  63. Baking ovens	24.	Dough or batter Maker	D
26. Weighing Balance 27. Chopping Boards - Plastic with HACCP Colour Coding 28. Cutting Knives (Full Set) (All Types) 29. Frying Pan-Non-Stick/Small/Medium/Large 30. Kadai-Large/Small (Non stick induction) 31. Heavy Bottom Pan Small/Big 32. Aluminum Degchi-15Ltr./12 Ltr. 33. Tawa- General/Large 8 34. Wok (Chinese Kadai) 35. Cooker-1 Ltr. / 2 Ltr., 36. Strainers-Conical/Strainers) 37. Steel Bowls-Small/Medium/Big 8 8 8. Collander 9 8 8. Accollander 9 8 8 8 8 8 8 8 8 8 8 8 8 8 9 9 9 1 8 9 1 9 1			
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41. Saucepan Large/small E  42. Plastic Trays-Big/Small D  43. Pie Dish D  44. Steel Plates D  45. Containers (For keeping dry items) (Plastic/Steel) E  46. Serving dish E  47. Bread, Cake & assorted moulds E  48. Roiling Pin and Rolling Base E  49. Mandolin Grater D  50. Wooden Spatula E  51. Perforated Spoon E  52. Steel Slicer E  53. Steel Basin D  54. Steel Ladles D  55. Steel & Plastic Mugs D  56. Steel Spoons D  57. Balloon Whisk E  58. Measuring Jars E  59. Digital Thermometers E  60. Dustbins E  61. Chart denoting the Do's' and Don'ts Kitchen E  62. First Aid Kit and Fire Extinguishers E			<u> </u>
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61. Chart denoting the Do's' and Don'ts Kitchen E  62. First Aid Kit and Fire Extinguishers E	59.	Digital Thermometers	Е
62. First Aid Kit and Fire Extinguishers	60.	Dustbins	E
	61.	Chart denoting the Do's' and Don'ts Kitchen	E
63. Baking ovens E	62.	First Aid Kit and Fire Extinguishers	Е
	63.	Baking ovens	Е

64.	Fly killer (UV type)	Е							
65.	Rodent box/ Glue Trap	Е							
B: Instruments & General Shop Outfit									
SI. No.	Name of the items	Quantity							
66.	Lighting (natural & artificial).	As required							
67.	Ventilation, air-conditioning (temperature & humidity and air quality measurement).	As required							
68.	Minimum recommended space for prevention of accidents.	As required							
69.	Trolleys & other aids to lift and move heavy material.	As required							
70.	Safety gear while working on heavy duty equipment& preventing contamination of food Steel mesh gloves.	As required							
71.	Locker for 20 Trainees	As required							
C: Gen	eral Machinery Installations –								
SI. No.	Name & Description of Machines	Quantity							
72.	A machinery / equipment are not essential, but desirable and intended for heavy pay load	As per size of establishment							
73.	Walk – in coolers and deep freeze	As required							
74.	Deep fat fryers	As required							
75.	3- tier ovens	As required							
76.	Combi – ovens	As required							
77.	Steam boilers / Tandoors / Griddle plates	As required							
78.	High pressure gas stoves	As required							
79.	Industrial scale – peeler, slices, choppers, Grinder and pulper.	As required							
80.	Dough kneaders & sheeters, Beater / mixers for batters	As required							
81.	Wet Grinders	As required							

### **FORMAT FOR INTERNAL ASSESSMENT**

Name & Address of the Assessor :						Year	Year of Enrollment :							
Nar	me & Address of ITI (Govt	:./Pvt.) :					Date	Date of Assessment :						
Nar	ne & Address of the Indu	stry :		5			Asses	Assessment location: Industry / ITI						
Tra	de Name :	s	Semester:	7	Duration of the Trade/course:									
Learning Outcome:														
	Maximum Marks (Total	100 Marks)	15	5_	10	5	10	10	5	10	15	15	ent	
SI. No	Candidate Name	Father's/Mother Name	مر م Safet <mark>y conscio</mark> usness	Workplace hygiene	Attendance/ Punctuality	Ability to follow Manuals/ Written instructions	Application of Knowledge	Skills to handle tools & equipment	Economical use of materials	Speed in doing work	Quality in workmanship	AVIV	Total internal assessment Marks	Result (Y/N)
1		कार	ाला व		<u>d</u> -	७ कश	GI 3	HK	d					
2														