

STANDARD KEMAHIRAN PEKERJAAN KEBANGSAAN (NATIONAL OCCUPATIONAL SKILL STANDARD)

HT-013-3:2011

BAKERY PRODUCTION PEMBUATAN ROTI

LEVEL 3



JABATAN PEMBANGUNAN KEMAHIRAN KEMENTERIAN SUMBER MANUSIA, MALAYSIA

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STANDARD KEMAHIRAN PEKERJAAN KEBANGSAAN (NATIONAL OCCUPATIONAL SKILL STANDARD)

STANDARD PRACTICE & STANDARD CONTENT FOR

BAKERY PRODUCTION LEVEL 3



Jabatan Pembangunan Kemahiran Kementerian Sumber Manusia, Malaysia

STANDARD PRACTICE

NATIONAL OCCUPATIONAL SKILLS STANDARD (NOSS) FOR;

BAKERY PRODUCTION LEVEL 3

1. INTRODUCTION

This is a new NOSS developed for Bakery Production under the Hospitality and Tourism sub sector of Kitchen. There is a high demand for skilled personnel in this field as the industry is developing rapidly. Based on the National Key Economic Plan (NKEA), the tourism industry will contribute RM103.6 billion in GNI by 2020. This will require the sector to nearly triple GNI contribution from its starting position of RM36.9 billion in 2009. To achieve this ambitious growth target, the tourism industry will need to achieve, among others an additional of 497,200 tourism jobs in the tourism sector by 2020. This represents a 30 percent increase from 2009. The total workforce will however grow at a lower rate compared to tourism receipts due to an anticipated rise in productivity ensuing from attracting and retaining a better quality workforce as well as upgrading the skills of the current workforce.

At present, the Malaysian bread industry is dominated by two national local bakeries, which cater to various regions - namely, the Gardenia and Stanson Bakeries, each with their own popular brands of Gardenia and High 5 respectively. These two companies hold approximately 76% of the retail market (Rydings, 2002). However, they compete between themselves through offering attractive bread products. Gardenia bakeries began operations in Malaysia in 1986 and produce American-style sandwich bread, using the traditional sponge and dough method. Within four short years, it became the bread market leader with an astounding 99% brand recall rate and 80% top-of-mind recall (Anon, 2004a). Today, Gardenia's overall production capacity hit 32,000 loaves per hour (the highest in the region) and produces over 20 varieties of loaf bread, buns, rolls and snack cakes in five different factories. Stanson Bakeries and its marketing unit are subsidiary companies of the Stanson Group under the Silver Bird Group Bhd. The Stanson Bakeries manufactures the European variety of breads. The group, which started in 1999, is currently contributing about RM 46 million, close to 90% of Silver Bird's turnover (Dhesi, 2004).

The demand for qualified and experienced Bakery Production personnel is important as of now and in the near future, based on the above NKEA forecast. Hence, the development of this NOSS is essential for the industry to have certain guidelines and standards based on the level of competencies that have been set by the industrial experts in this field. This NOSS is developed focusing on the Bakery Production area. Based on the DACUM workshop findings, it was decided that the entry level for Bakery Production Level 3 personnel career is pre-requisite SKM Level 2. The justification is based on the nature of work that requires competent in performing a broad range of varied work activities, performed in a variety of contexts, most of which are complex and non-routine. There is considerable responsibility and autonomy and control or guidance of others is often required.

This NOSS provides first hand information to the workers regarding the Bakery Production working environment. This NOSS also provides a career path and employment development for those involved in this industry.

NOSS development is conducted starting with Occupational Area Analysis (OAA), which is an analysis of the specific area that the NOSS will be developed. The Occupational Structure (OS) of Occupational Analysis (OA) will be the basis for the analysis. In case non-existing OS, the OA session should be conducted for that specific occupational area to produce OS by NOSS panel experts. An existing OS is shown in Figure 1: OS for the *Kitchen – Bakery Sub Sector of the Hospitality and Tourism*.

Consequently, the development of this NOSS at Level 3 (*Refer Figure 1.2 Proposed Occupational Profile Chart for Kitchen* – Bakery Production) is essential so that the sub sector will have complete standards and guidelines to be used by the industry.

The first stage of NOSS development is to identify the Competency Unit (CU) for Bakery Production Level 3. CU can be defined as a meaningful unit of works, which contains several activities to complete a work cycle objectively and the CU must be independent (stand alone). Core CU are the competencies that are common/ generic to the job according to the industry. Elective CU is the competencies that are required for a specific industry/ sub sector/ manufacture.

The second stage of NOSS development is to develop Competency Profile (CP). The CP is the summary and analysis of all the competency units that have been identified in the first stage of the development. Each CU will be analysed in order to determine the work activity involve. The performance criteria for each activity will also be determined.

The final stage of NOSS development is to develop the Curriculum of Competency Unit (CoCU). This will be done based on the information of the developed CP.

This NOSS provides first hand information to the workers regarding the Bakery Production working environment. This NOSS also provides a career path and employment development for those involved in this industry.

The minimum entry qualifications are those with interest to work in the area as mentioned above and hold Sijil Kemahiran Malaysia Level 2 in Bakery Production. The candidate must be able to read, write and possess applied skill and have interest in the Bakery Production

2. OCCUPATIONAL STRUCTURE

Existing Occupational Structure

SUB SECTOR									
LEVEL\JOB AREA	AREA KITCHEN BAKERY		PASTRY	BUTCHER	STEWARDING				
LEVEL 8	No Level	No Level No Level No Level		No Level	No Level				
LEVEL 7		EXECUTIVE CHEF							
LEVEL 6		EXECUTIVE SOUS CHEF							
LEVEL 5		SOUS	CHEF		STEWARD MANAGER				
LEVEL 4	JUNIOR SOUS CHEF	BAKER	PASTRY CHEF	BUTCHER	CHIEF STEWARD				
LEVEL 3	CHEF DE PARTIE	STEWARD SUPERVISOR							
LEVEL 2	DEMI CHEF	DEMI CHEF BAKERY	DEMI CHEF PASTRY	BUTCHER ASSISTANT	SENIOR STEWARD				
LEVEL 1	COMMIS KITCHEN	COMMIS BAKERY	COMMIS PASTRY	COMMIS BUTCHERY	STEWARD				

Figure 1.1 Existing Occupational Framework matrix for Hospitality and Tourism-Sub sector of Kitchen in Malaysia

Proposed Occupational Structure

SUB SECTOR								
LEVEL\JOB AREA	KITCHEN	BAKERY PRODUCTION	BAKERY PRODUCTION PASTRY		STEWARDING			
LEVEL 8	No Level	No Level No Level		No Level	No Level			
LEVEL 7		EXECUTIVE CHEF						
LEVEL 6		EXECUTIVE SOUS CHEF						
LEVEL 5	SOUS CHEF	PASTR	Y CHEF	CHIEF BUTCHER	STEWARD MANAGER			
LEVEL 4	JUNIOR SOUS CHEF	CHIEF BAKER	ASST. PASTRY CHEF	ASST. CHIEF BUCTHER	CHIEF STEWARD			
LEVEL 3	CHEF DE PARTIE	BAKERY PRODUCTION	CHEF DE PARTIE PASTRY	CHEF DE PARTIE BUTCHER	STEWARD SUPERVISOR			
LEVEL 2	DEMI CHEF	BAKERY PRODUCTION	DEMI CHEF PASTRY	BUTCHER ASSISTANT	SENIOR STEWARD			
LEVEL 1	COMMIS KITCHEN	NO LEVEL	COMMIS PASTRY	COMMIS BUTCHERY	STEWARD			

Figure 1.2 Proposed Occupational Framework matrix for Hospitality and Tourism-Sub sector of Kitchen in Malaysia

3. DESCRIPTION OF COMPETENCY LEVEL

The NOSS is developed for various occupational areas. Candidates for certification must be assessed and trained at certain levels to substantiate competencies. Below is a guideline of each NOSS Level as defined by the Department of Skills Development, Ministry of Human Resources, Malaysia.

Malaysia Skills Certificate Level 1: (Operation and Production Level)	Competent in performing a range of varied work activities, most of which are routine and predictable.
Malaysia Skills Certificate Level 2: (Operation and Production Level)	Competent in performing a significant range of varied work activities, performed in a variety of contexts. Some of the activities are non- routine and required individual responsibility and autonomy.
Malaysia Skills Certificate Level 3: (Supervisory Level)	Competent in performing a broad range of varied work activities, performed in a variety of contexts, most of which are complex and non- routine. There is considerable responsibility and autonomy and control or guidance of others is often required.
Malaysia Skills Diploma Level 4: (Executive Level)	Competent in performing a broad range of complex technical or professional work activities performed in a wide variety of contexts and with a substantial degree of personal responsibility and autonomy. Responsibility for the work of others and allocation of resources is often present.
Malaysia Skills Advanced Diploma Level 5: (Managerial Level)	Competent in applying a significant range of fundamental principles and complex techniques across a wide and often unpredictable variety of contexts. Very substantial personal autonomy and often significant responsibility for the work of others and for the allocation of substantial resources features strongly, as do personal accountabilities for analysis, diagnosis, planning,

v

execution and evaluation.

4. MALAYSIAN SKILLS CERTIFICATION

Candidates after being assessed, verified and fulfilled Malaysian Skill Certification requirements shall be awarded with Sijil Kemahiran Malaysia (SKM) for Level 3 as for Level 4 and 5 shall be awarded with Diploma Kemahiran Malaysia and Diploma Lanjutan Kemahiran Malaysia respectively. All candidates are also recommended to undergo on job training to attain knowledge and skills in the Bakery Production field of work.

Assessment must be in accordance with the following:

This NOSS outlines Competency Unit (CU) in the Bakery Production working environment as required by the industry and has been developed and documented following extensive collaboration across key Malaysian organisations. To meet the requirements of this industry, it is imperative that the CU outlined follow a high standard as well as maintenance of consistency throughout the assessment process. This can only be done by stipulating a precise framework in which the assessment of CU must be conducted. The training & assessment of a Bakery Production practitioner must be deployed in accordance with JPK policy and standard as follows:

- a) The final assessment of competence must include the combination of documented continuous assessment conducted by the facilitator during training and the results of post-training examination;
- b) The post-training examination must be practical in nature and involve demonstration & application of the CU utilizing real equipment and real-world examples;
- c) The CU as outlined in this NOSS must be assessed throughout the training program and during a post-training examination;
- d) The learning environment and facilities need to be in accordance with the requirements of the industries;
- e) The development and assessment of the CU must demonstrate that they develop transferable skills;
- f) The development and assessment of the CU must include documentation by candidates both during training and examination; and
- g) All training and assessment materials must be mapped and verified to be in accordance with the NOSS Bakery Production by a panel of industry subject matter experts appointed by JPK.

5. JOB COMPETENCIES

A Bakery Production (Level 3) is competent in performing:

- Bread preparation
- Puff preparation
- Croissant preparation
- Danish pastry preparation
- Bakery production control
- Stock control
- Bakery product innovation
- Bakery administrative functions
- Bakery product costing

6. WORKING CONDITIONS

Generally they work from under normal working hour from morning to evening depending on organization nature of business. They may be required to work extra hours to fulfill internal and external requirement. In food preparation service, they may be needed to work in shift to accommodate work requirements. They need to use / wear appropriate attire during the commencement of their jobs. They may work individually or in a modular group in a conducive and ventilated environment

7. EMPLOYMENT PROSPECTS

There are excellent prospect in private sectors due to shortage of hands-on expert in food preparation services. In public sector there are lacking of professional and well experience bakery production. This area has a very good job market potential abroad for skilled personnel due to shortage of such highly skilled personnel in this region. Excellent prospects in food production related industries such as Tourism and Hospitality Industries, Food and Beverage Industries.

Other related occupation with respect to employment opportunities are:

- Celebrity Chef
- Marketing Executive for food and beverage company
- Personal Chef for Celebrity and Royalty
- Food Promoter for Multinational Food Company
- Lecturer
- Food Ambassador (Ministry of Tourism Malaysia-Fabulous Food Malaysia campaign)

Other related industries with respect to employment opportunities are:

- Training Institution
- Food Manufacturing
- Public Sector
- Food Processing

8. SOURCES OF ADDITIONAL INFORMATION

<u>Local</u>

- Chefs Association of Malaysia 15B Jalan Pandan Indah 1/23B pandan Indah 55100 Kuala Lumpur URL: www.malaysiachefs.com Tel: 603-9274 0217
- Malaysian Association of Hotels C5-3 Wisma MAH, Jalan Ampang Utama 1/1 One Ampang Avenue
 68000 Ampang Selangor
 URL : http://www.hotels.org.my Tel: 603-4251 8477

9. APPROVAL DATE

The National Skills Development Board (NSDB), Ministry of Human Resources has agreed and endorsed this Standard on

10. ACKNOWLEDGEMENT

The Director General of DSD would like to extend his gratitude to the organisations and individuals who have been involved in developing this standard.

11. NOSS DEVELOPMENT COMMITTEE MEMBERS

BAKERY PRODUCTION -

LEVEL 3

PANEL						
1.	En. Mohd Ghouse Bin Ishak	Pastry Chef Berjaya Times Square Hotel & Convention Centre Kuala Lumpur				
2.	Pn. Zaharah Bte Md Razi	Pastry Chef Seri Pacific Kuala Lumpur				
3.	En. Mohd Irwan Bin Bani Ismail	Pastry Chef Swiss Garden Hotel Kuala Lumpur				
4.	En. Ahmad Shahreen Bin Mohamed Salleh	Executive Chef Subang Jaya Medical Center, Selangor				
5.	En. Badarol Hisham Bin Abd Hamid	Jr Sous Chef Ritz Carlton, Kuala Lumpur				
6.	En. Ramaesvaran AL Paramaesvaran	Sous Chef Ritz Carlton,Kuala Lumpur				
7.	En. Ahmad Sanif Bin Latif	Pastry Chef JW Marriot Hotel Kuala Lumpur				
8.	En. Zamri Bin Jalal	Culinary Lecturer Silverspoon International College, Selangor				
9.	Pn. Annis Bte Jamaludin	Lecturer ITTAR-IPP (PJ) Sdn Bhd.				
10.	En. Mohd Roizziddin	Pastry Chef Berjaya University Kuala Lumpur				
FACILITATOR						
11.	11. En. Khairul Anuar Bin Yahya					
CO-FACILITATOR						
12.	Pn. Eliza Bte Ramly					

JOB PROFILE CHART (JPC)

SECTOR	HOSPITALITY AND TOURISM				
SUB SECTOR	KITCHEN				
JOB AREA	BAKERY PRODUCTION				
JOB LEVEL	THREE (3)JOB AREA CODEHT-013-3:2011				

	>	←		COMPETENCY UNIT			
CORE		BREAD PREPARATION	PUFF PREPARATION	CROISSANT PREPARATION	DANISH PASTRY PREPARATION		
		HT-013-3:2011-C01	HT-013-3:2011-C02	HT-013-3:2011-C03	HT-013-3:2011-C04		
		BAKERY PRODUCT INNOVATION	BAKERY PRODUCTION CONTROL	BAKERY PRODUCTION STOCK CONTROL			
		HT-013-3:2011-C05	HT-013-3:2011-C06	HT-013-3:2011-C07			
ELECTIVE		BAKERY ADMINISTRATIVE FUNCTIONS	BAKERY PRODUCT COSTING				
		HT-013-3:2011-E01	HT-013-3:2011-E02				

COMPETENCY PROFILE (CP)

Sub Sector	KITCHEN						
Job Area	BAKERY PF	BAKERY PRODUCTION					
Level	Three (3)						
CU Title	CU Code	CU Descriptor		CU Work Activities	Performance Criteria		
1. Bread preparation	HT-013- 3:2011-C01	Bread preparation is to produce bread product in accordance with standard recipe, production requirement, standing order, Hazard Analysis and Critical Control Points (HACCP), Good Manufacturing Practice (GMP) and Halal requirements. The personnel who	1.	Identify bread preparation requirements Prepare bread <i>mise en place</i>	 1.1 Types of bread product, production quantity and delivery time determined 1.2 Bread product standard recipe, ingredients and production workflow determined 2.1 Cooking utensils arranged 		
		are competent in bread preparation shall be able to carry out bread preparation, finishing, decoration and end product display to meet required quality and quantity.			and oven preheated according to requirements 2.2 Ingredients scaled and weighted according to standard recipe		
			3.	Carry out bread preparation	3.1 Bread product dough mixed, divided, rounded, moulded, panned and baked according to standard recipe		
			4.	Carry out bread product finishing	 4.1 Bread product glazed and topped according to standing order 4.2 Bread end product plated according to requirements 		
			5.	Evaluate bread product quality and quantity	5.1 Bread product colour, texture, flavour, taste, shape, size, aroma and quantity meets the standard requirement and standing order		
			6.	Record bread preparation activities	6.1 Bread preparation activities reported to superior		

CU Title	CU Code	CU Descriptor		CU Work Activities	Performance Criteria
2. Puff preparation	HT-013- 3:2011-C02	Puff preparation is to produce puff product in accordance with standard recipe, production requirement, standing order, Hazard Analysis and Critical Control Points (HACCP), Good Manufacturing Practice	1.	Identify puff preparation requirements	 1.1 Types of puff product, production quantity and delivery time determined 1.2 Puff product standard recipe, ingredients and production workflow determined
		(GMP) and Halal requirements. The personnel who are competent in puff preparation shall be able to carry out puff preparation, product finishing, decoration and end product display to meet required		Prepare puff <i>mise en place</i>	 2.1 Cooking utensils arranged and oven preheated according to requirements 2.2 Ingredients scaled and weighted according to standard recipe
		quality and quantity.	3.	Carry out puff preparation	3.1 Puff product dough mixed, divided, rounded, moulded, panned, filled and baked according to standard recipe
			4.	Carry out puff finishing	 4.1 Puff product glazed and topped according to standing order 4.2 Puff end product plated according to requirements
			5.	Evaluate puff quality and quantity	5.1 Puff product colour, texture, flavour, taste, shape, size, aroma and quantity meets the standard requirement and standing order
			6.	Record puff preparation activities	6.1 Puff preparation activities reported to superior

CU Title	CU Code	CU Descriptor		CU Work Activities	Performance Criteria
3. Croissant preparation	HT-013- 3:2011-C03	Croissant preparation is to produce croissant product in accordance with standard recipe, production requirement, standing order, Hazard Analysis and Critical Control Points (HACCP), Good Manufacturing Practice (GMP) and Halal	1.	Identify croissant preparation requirements	 1.1 Types of croissant product, production quantity and delivery time determined 1.2 Croissant product standard recipe, ingredients and production workflow determined
		requirements. The personnel who are competent in croissant preparation shall be able to carry out croissant preparation, product finishing, decoration and end product display to meet required	2.	Prepare croissant <i>mise en</i> place	 2.1 Cooking utensils arranged and oven preheated according to requirements 2.2 Ingredients scaled and weighted according to standard recipe
		quality and quantity.	3.	Carry out croissant preparation	3.1 Croissant product dough mixed, divided, rounded, moulded, panned and baked according to standard recipe
			4.	Carry out croissant finishing	 4.1 Croissant product glazed and topped according to standing order 4.2 Croissant end product plated according to requirements
			5.	Evaluate croissant quality and quantity	5.1 Croissant product colour, texture, flavour, taste, shape, size, aroma and quantity meets the standard requirement and standing order
			6.	Record croissant preparation activities	6.1 Croissant preparation activities reported to superior

	CU Title	CU Code	CU Descriptor		CU Work Activities	Performance Criteria
4.	Danish pastry preparation	HT-013- 3:2011-C04	Danish pastry preparation is to produce Danish pastry product in accordance with standard recipe, production requirement, standing order, Hazard Analysis and Critical Control Points (HACCP), Good Manufacturing Practice (GMP) and	1.	Identify Danish pastry preparation requirements	 1.1 Types of Danish pastry product, production quantity and delivery time determined 1.2 Danish pastry product standard recipe, ingredients and production workflow determined
			Halal requirements. The personnel who are competent in Danish pastry preparation shall be able to carry out Danish pastry preparation, product finishing, decoration and end product display to meet	2.	Prepare Danish pastry <i>mise en</i> <i>place</i>	 2.1 Cooking utensils arranged and oven preheated according to requirements 2.2 Ingredients scaled and weighted according to standard recipe
			required quality and quantity.	3.	Carry out Danish pastry preparation	3.1 Danish pastry product dough mixed, divided, rounded, moulded, panned and baked according to standard recipe
				4.	Carry out Danish pastry finishing	 4.1 Danish pastry product glazed and topped according to standing order 4.2 Danish pastry end product plated according to requirements
				5.	Evaluate Danish pastry quality and quantity	5.1 Danish pastry product colour, texture, flavour, taste, shape, size, aroma and quantity meets the standard requirement and standing order
				6.	Record Danish pastry preparation activities	6.1 Danish pastry preparation activities reported

CU Title	CU Code	CU Descriptor		CU Work Activities	Performance Criteria
5. Bakery product innovation	HT-013- 3:2011-C05	Bakery product innovation is to produce recycle bakery product in accordance with standard recipe, production requirement, standing order Hazard Analysis and Critical Control Points (HACCP), Good Manufacturing Practice (GMP) and	1.	Identify bakery product innovation requirement	 1.1 Types of bakery product innovation, production quantity and delivery time determined 1.2 Bakery product standard recipe, ingredients and production workflow
		Halal requirements. The personnel who are competent in bakery product innovation shall be able to carry out bakery product innovation to meet required quality and quantity.	2.	Prepare bakery product innovation <i>mise en place</i>	determined 2.1 Cooking utensils arranged according to requirements 2.2 Ingredients scaled and weighted according to standard recipe
				Carry out bakery product innovation Carry out bakery product innovation finishing	3.1 Bakery product innovation produced according to standard recipe3.2 Bakery product innovation
					product glazed and topped according to standing order 3.3 Bakery product innovation end product plated according to requirements
			5.	Evaluate bakery product innovation quality and quantity	4.1 Bakery product innovation colour, texture, flavour, taste, shape, size, aroma and quantity confirmed according to standing order
			6.	Record bakery product innovation production activities	5.1 Bakery product innovation production activities reported to superior

	CU Title	CU Code	CU Descriptor		CU Work Activities	Performance Criteria
6.	Bakery production control	HT-013- 3:2011-C06	Bakery production control is to manage and control production in accordance with Standard Operating Procedure (SOP), production requirement, standing	1.	Identify bakery production control requirements	 1.1 Bakery product, production capacity and availability determined 1.2 Bakery production process/workflow determined
			order, Hazard Analysis and Critical Control Points (HACCP), Good Manufacturing Practice (GMP) and Halal requirements. The personnel who are competent in production	2.	Plan bakery production control activities	2.1 Bakery production checklist, standing order, materials requisition, subordinate tasking and schedule prepared
			control shall be able to prepare production subordinate tasking and monitor bakery production activities to meet required quality and quantity.	3.	Carry out bakery production control activities	 3.1 Subordinate tasking circulated and briefed 3.2 Bakery production monitored and bakery product quality inspected 3.3 Bakery products appropriated delivered to customer
				4.	Evaluate effectiveness of bakery production control activities	 4.1 Bakery production comply with production plan 4.1 Bakery product colour, texture, flavour, taste, shape, size, aroma and quantity meets the standard requirement and standing order
				5.	Prepare bakery production control activities report	5.1 Bakery production activities reported to superior

	CU Work Activities	Performance Criteria
control 3:2011-C07 to manage and control stock in accordance with Standard Operating Procedure (SOP), production requirement, Hazard Analysis and Critical Control Points (HACCP), Good Manufacturing Practice (GMP) and Halal 3. requirements. The personnel who are competent in stock control shall be able to carry out stock control activities to meet required quality.4.	 Identify stock control Requirements Plan stock control activities Carry out stock control activities Evaluate stock control activities Prepare stock control report 	 1.1 Types of raw material, space and humidity temperature determined 1.2 Store management process/workflow determined 2.1 Stock management documentation listed out 3.1 Schedule for receiving and issuing of stock circulated and briefed, inventory stock record updated, store requisition filled up and stock arrangement confirmed 4.1 Stock keeping record and filing updated 4.2 Issuing and ordering of stock complied with procedures 5.1 Stock control report prepared and submitted to superior

	CU Title	CU Code	CU Descriptor		CU Work Activities	Performance Criteria
8	Bakery administrative function	HT-013- 3:2011-E01	Bakery administrative function is to administer subordinate on career development in accordance with	1.	Identify bakery administrative function requirements	1.1 Staff qualification and staff development requirement determined
			Standard Operating Procedure (SOP) and production requirement. The personnel who are competent in bakery administrative function shall be able to carry out bakery administrative function activities to meet required quality and quantity.	2.	Plan bakery administrative function activities	2.1 Subordinates performance appraisal obtained, staff development program plan and staff development program proposal prepared according company objective and business plan.
				3.	Carry out bakery administrative function activities	3.1 Staff development program schedule determined3.2 Staff development program coordinated
					Evaluate effectiveness of bakery administrative function activities	4.1 Suitability of staff development program schedule, functionality & suitability of training equipment and materials and effectiveness of staff development program coordination checked
				5.	Prepare bakery administrative function activities report	5.1 Bakery administrative function activities reported to superior

CU Title	CU Code	CU Descriptor		CU Work Activities	Performance Criteria
9. Bakery product costing	HT-013- 3:2011-E02	Bakery product costing is to calculate bakery product cost in accordance with Standard	1.	Identify bakery product costing requirements	1.1 Types of bakery product and product costing works flow determined
	Operating Procedure (SOP) and production requirement. The personnel who are competent in bakery product costing shall be able to carry out bakery product costing	2.	Plan bakery product costing activities	2.1 Bakery product standard recipe and materials price list obtained2.2 Costing sheet format prepared	
		activities to meet required quality.	3.	Carry out bakery product costing activities	3.1 Bakery product costing tabulated and calculated
			4.	Evaluate accuracy of bakery product costing	4.1 accuracy of bakery product costing calculation checked
		5.	Prepare bakery product costing activities report	5.1 Bakery product costing activities reported to superior	

CURRICULUM of COMPETENCY UNIT (CoCU)

Sub Sector		FOOD AND B	EVERAGES	6						
Job Area		BAKERY PRO	BAKERY PRODUCTION							
Competency Unit T	itle	BREAD PREP	ARATION							
Competency Unit Descriptor		order, Hazard requirements.	Analysis a The person	and Critical Cont	rol Points petent in t	(HACCP), (pread prepara	Good Manufa ition shall be	acturing Practice able to carry out	uirement, standing (GMP) and Halal bread preparation,	
Competency Unit IE)	HT-013-3:20	011-C01	Level	3	Training Duration	120 Hours	Credit Hours	12	
Work Activities	Related F	Knowledge	Арр	lied Skills		le / Safety / onmental	Training Hours	Delivery Mode	Assessment Criteria	
1. Identify bread preparation requirements	hygiene guideline • OSHA • Enviro Quality (Act12 • Halal compl • HACC • GMP ii. Bread sta iii. Productio iv. Delivery v. Bread sta vi. Types of as: • Lean	onmental y Act 1974 27) product iance P anding order on quantity time andard recipe					3 hours	Lecture	 i. Standing order interpreted ii. Production quantity determined iii. Delivery time determined iv. Standard recipe obtained v. Types of bread determined vi. Bread preparation workflow determined 	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 White sandwich bread Rich Multigrain Wholemeal Rye bread Plaited Raisin Cheese Dry fruit vii. Bread preparation workflow 					
		 i. Interpret standing order ii. Determine production quantity iii. Determine delivery time iv. Obtain standard recipe v. Determine types of bread vi. Determine bread preparation workflow 	<u>Attitude:</u> i. Resourceful in identifying bread preparation requirements	6 hours	Demonstration & Observation	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<u>Safety:</u> -Not applicable-			
2. Prepare bread mise en place	 i. Types of cooking utensils and equipment such as; Pan Scale Measurement cups Mixer Oven ii. Function and usage of cooking utensils and equipment bread preparation iii. Bread ingredients such as; Sugar Salt Milk Yeast Flour Milk powder Egg Ice water Grains 			12 hours	Lecture	i. Function and usage of cooking utensils and equipment determined ii. Cooking utensils and equipment arranged iii. Bread ingredients according to standard recipe determined
		i. Determine function and usage of cooking utensils and equipment		20 hours	Demonstration & Observation	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		 ii. Arrange cooking utensils and equipment iii. Determine bread ingredients according to standard recipe 	<u>Attitude:</u> i. Organise in preparing bread <i>mise en place</i> <u>Safety:</u> i. Careful in checking and testing equipment in good condition ii. Adhere to safety practice			
3. Carry out bread preparation	 i. Method of mixing bread dough Straight dough method Sponge method ii. Techniques of bread preparation Mixing Kneading Rolling Shaping Proofing Baking 			20 hours	Lecture	 i. Bread standard recipe followed ii. Utensils and equipment utilised iii. Bread ingredients measured according to standard recipe

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Cooling iii. Procedure of bread preparation			051		iv. Bread ingredients mixed according to
		 i. Follow bread standard recipe ii. Utilise utensils and equipment iii. Measure bread ingredients according to standard recipe iv. Mix bread ingredients according to standard recipe v. Proove bread dough according to standard recipe vi. Apply techniques of bread baking vii. Follow procedure of bread preparation 	Attitude: i. Adhere to hygiene practise ii. Neat and tidy in carrying out bread preparation Safety: i. Wear appropriate Personal Protective Equipment (PPE)	35 hours	Demonstration & Observation	standard recipe v. Bread dough prooved according to standard recipe vi. Techniques of bread baking applied vii. Procedure of bread preparation followed

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			 ii. Careful when handling sharp utensils and electrical equipment i. Adhere to kitchen safety, hygiene and health procedure 			
4. Carry out bread finishing	 i. Types of bread finishing Glazing Dusting ii. Technique of glazing and dusting iii. Method of bread product display and packaging 			4 hours	Lecture	 Types of bread finishing determined Bread product glazed and dusted according to
		 i. Determine types of bread finishing ii. Glaze and dust bread product according to standing order iii. Display and pack bread product according to requirements 	<u>Attitude:</u> i. Adhere to hygiene practise ii. Neat and tidy in carrying out bread finishing work	8 hours	Demonstration & Observation	standing order iii. Bread product displayed and packed according to requirements

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			 <u>Safety:</u> Wear appropriate Personal Protective Equipment (PPE) Careful when handling equipment Adhere to kitchen safety and health procedure 			
5. Evaluate bread quality and quantity	 i. Bread shape ii. Bread texture iii. Bread aroma iv. Bread colour v. Bread flavour and taste vi. Bread appearance vii. Bread quantity and quality contribution factors Preparation process Temperature 			2 hours	Lecture	 i. Bread shape checked ii. Bread texture checked iii. Bread aroma checked iv. Bread colour checked v. Bread flavour and taste checked vi. Bread appearance
		 i. Check bread shape ii. Check bread texture iii. Check bread aroma iv. Check bread colour v. Check bread flavour and taste vi. Check bread appearance 		4 hours	Demonstration & Observation	checked vii. Bread quantity meets with standing order confirmed

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		vii. Confirm bread quantity meets with standing order	 <u>Attitude:</u> Responsible in checking bread quality and quality and quantity Adhere to hygiene practise <u>Safety:</u> Wear appropriate Personal Protective Equipment (PPE) Adhere to kitchen safety, hygiene and health procedure 			
6. Record bread preparation activities	 i. Flow of reporting line i. Bread preparation reporting format ii. Method of reporting bread preparation activities Verbal Checklist Written iii. Procedure of reporting bread preparation activities 			2 hours	Lecture	 Personnel involved determined Bread preparation activities reporting format determined Method of reporting bread

Work Activities Related	Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria	
	ii. iii. iv. v.	Determine personnel involved Determine bread preparation activities reporting format Apply method of reporting bread preparation activities Generate bread preparation activities report Follow procedure of reporting bread preparation activities	Attitude: i. Meticulous in writing report ii. Clarity and responsible in reporting bread preparation activities iii. Adhere to report submission dateline <u>Safety:</u> -Not applicable-	4 hours	Demonstration & Observation	preparation activities applied iv. Bread preparation activities report generated v. Procedure of reporting bread preparation activities followed	

Employability Skills

Core Abilities	Social Skills
 01.10 Apply a variety of mathematical techniques. 01.11 Apply thinking skills and creativity. 02.09 Prepare flowcharts. 02.10 Prepare reports and instructions. 02.11 Convey information and ideas to people. 03.09 Manage and improve performance of individuals. 03.12 Provide coaching/on-the-job training. 03.13 Develop and maintain team harmony and resolve conflicts. 03.14 Facilitate and coordinate teams and ideas. 03.15 Liaise to achieve identified outcomes. 03.16 Identify and assess client/customer needs. 04.06 Allocate work. 05.02 Inspect and monitor work done and/or in progress. 06.07 Develop and maintain networks. 	 Communication skills Conceptual skills Interpersonal skills Multitasking and prioritizing Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

ITE	EMS	RATIO (TEM : Trainees)				
	Stationery Kitchen utensils(Pan, Scale, Measurement spoon & cups, Mixing bowl, bread cutter, rolling pin, scrapper, baking tray, wooden spoon, pastry brush, sieve) Working table Mixer machine Stove Oven Chillers Freezer Bread ingredients Bread standard recipe Personal Protective Equipment (safety boot, Chef hat, disposable glove apron)	As required 1:2 1:4 1:10 1:4 1:10 1:20 1:20 1:20 1:1 1:1 1:1				

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CURRICULUM of COMPETENCY UNIT (CoCU)

Sub Sector		FOOD AND BEVERAGES							
Job Area		BAKERY PRODUCTION							
Competency Unit Title		PUFF PREPARATION							
Competency Unit Descriptor		Puff preparation is to produce puff product in accordance with standard recipe, production requirement, standing order, Hazard Analysis and Critical Control Points (HACCP), Good Manufacturing Practice (GMP) and Halal requirements. The personnel who are competent in puff preparation shall be able to carry out puff preparation, product finishing, decoration and end product display to meet required quality and quantity.							
Competency Unit ID				Level	3	Training Duration	40 Hours	Credit Hours	4
Work Activities Related K		Knowledge	Applied Skills		Attitude / Safety / Environmental		Training Hours	Delivery Mode	Assessment Criteria
1. Identify puff preparation requirements	 i. Safety, health and hygiene practices guidelines such as; OSHA Environmental Quality Act 1974 (Act127) Halal product compliance HACCP GMP Puff standing order Production quantity iv. Delivery time v. Puff standard recipe vi. Shape of puff such as: Triangle Square Round 						3 hours	Lecture	 Standing order interpreted Production quantity determined Delivery time determined Standard recipe obtained Shape of puff determined Puff preparation workflow determined

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Rectangular Half moon Vol au vent / Bouchee vii. Puff preparation workflow 					
		 i. Interpret standing order ii. Determine production quantity iii. Determine delivery time iv. Obtain standard recipe v. Determine shape of puff vi. Determine puff preparation workflow 	<u>Attitude:</u> i. Resourceful in identifying puff preparation requirements <u>Safety:</u> -Not applicable-	4 hours	Demonstration & Observation	
2. Prepare puff <i>mise en place</i>	 i. Types of cooking utensils and equipment such as; Pan Scale 			1 hour	Lecture	i. Types of cooking utensils and equipment determined

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Measurement cups Pastry cutter Mixer Oven ii. Function and usage of cooking utensils and equipment for puff preparation iii. Puff ingredients such as; Sugar Salt Milk Flour Egg Ice water Pastry butter 					 ii. Function and usage of cooking utensils and equipment determined iii. Cooking utensils and equipment arranged iv. Puff ingredients according to standard recipe determined
		 i. Determine types of cooking utensils and equipment ii. Determine function and usage of cooking utensils and equipment iii. Arrange cooking utensils and equipment iv. Determine puff ingredients according to standard recipe 		2 hours	Demonstration & Observation	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
3. Carry out puff preparation	 Method of mixing (straight dough) Techniques of puff preparation Mixing Kneading Rolling Folding Shaping Baking iii. Procedure of puff preparation 		Attitude: i. Organise in preparing puff mise en place <u>Safety:</u> i. Careful in checking and testing equipment in good condition ii. Adhere to safety practice	1 hour	Lecture	 Puff standard recipe followed Utensils and equipment utilised Puff ingredients measured according to standard recipe Puff dough
		 i. Follow puff standard recipe ii. Utilise utensils and equipment iii. Measure puff ingredients according to standard recipe 		4 hours	Demonstration & Observation	v. Technique of

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		 iv. Mix puff dough ingredients according to standard recipe v. Apply technique of puff dough folding vi. Apply technique of puff shaping according to standing order vii. Apply techniques of puff baking viii. Follow procedure of puff preparation 	Attitude:i. Adhere to hygiene practiseii. Neat and tidy in carrying out puff preparationSafety:i. Wear appropriate Personal Protective Equipment (PPE)ii. Careful when handling sharp utensils and electrical equipmentiii. Adhere to kitchen safety, hygiene and health procedure			puff dough folding applied vi. Technique of puff shaping applied according to standing order vii. Techniques of puff baking applied viii. Procedure of puff preparation followed

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
4. Carry out puff finishing	 i. Types of puff finishing Filling Glazing Topping ii. Technique of filling, glazing and topping iii. Method of puff product display and packaging 			2 hour	Lecture	 i. types of puff finishing Determined ii. Puff product filled, glazed and topped according to standing order
		 i. Determine types of puff finishing ii. Fill, glaze and top puff product according to standing order iii. Display and pack puff product according to requirements 	<u>Attitude:</u>	5 hours	Demonstration & Observation	iii. Puff product displayed and packed according to requirements
			 Adhere to hygiene practise Neat and tidy in carrying out finishing work 			
			<u>Safety:</u> i. Wear appropriate Personal Protective Equipment (PPE) ii. Careful when handling equipment			

Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		iii. Adhere to kitchen safety and health procedure			
valuate puff uality and uantity ii. Puff shape iii. Puff texture iii. Puff aroma iv. Puff colour v. Puff flavour and taste vi. Puff appearance vii. Puff quantity and quality contribution factors • Preparation process • Temperature			3 hours	Lecture	 i. Puff shape checked ii. Puff texture checked iii. Puff aroma checked iv. Puff colour checked v. Puff flavour and taste checked
	 i. Check puff shape ii. Check puff texture iii. Check puff aroma iv. Check puff colour v. Check puff flavour and taste vi. Check puff appearance vii. Confirm puff quantity meets with standing order 	<u>Attitude:</u> i. Responsible in checking puff quality and quantity ii. Adhere to	10 hours	Demonstration & Observation	vi. Puff appearance checked vii. Puff quantity meets with standing order confirmed
	 i. Puff shape ii. Puff texture iii. Puff aroma iv. Puff colour v. Puff flavour and taste vi. Puff appearance vii. Puff quantity and quality contribution factors Preparation process 	i. Puff shape ii. Puff texture iii. Puff aroma iv. Puff aroma iv. Puff colour v. Puff appearance vii. Puff quantity and quality contribution factors • Preparation process • Temperature i. Check puff shape ii. Check puff texture iii. Check puff aroma iv. Check puff appearance vi. Check puff appearance vii. Confirm puff quantity meets with standing	Related Knowledge Applied Skills Environmental ii. Puff colour iii. Adhere to kitchen safety and health procedure ii. Puff texture iii. Adhere to kitchen safety and health procedure iii. Puff texture iii. Puff aroma iv. Puff colour v. Puff appearance vii. Puff quantity and quality contribution factors • Preparation process • Temperature i. Check puff shape • ii. Check puff texture • Check puff texture • vii. Puff usour and taste • • • • vii. Check puff texture • • • • vii. Check puff texture • • • • vii. Check puff flavour and taste • • • • vii. Check puff gapearance • • • • • vii. Check puff quantity meets with standing order • • • • • vii. Confirm puff quantity and quality	Related Knowledge Applied Skills Environmental Hours I Puff shape ii. Adhere to kitchen safety and health procedure 3 hours ii. Puff shape 3 hours 3 hours 3 hours iii. Puff aroma v. Puff colour 3 hours 3 hours v. Puff colour Puff appearance 3 hours 10 hours • Preparation process • Temperature 10 hours 10 hours ii. Check puff texture iii. Check puff aroma v. Check puff appearance 10 hours ii. Check puff texture iii. Check puff aroma 10 hours 10 hours	Related Knowledge Applied Skills Environmental Hours Mode ii. Adhere to kitchen safety and health procedure iii. Adhere to kitchen safety and health procedure 3 hours Lecture ii. Puff shape iii. Puff texture iii. Puff aroma iv. Puff appearance vii. Puff appearance vii. Puff appearance vii. Puff appearance vii. Puff quantity and quality contribution factors i. Check puff shape ii. 10 hours Demonstration & Observation ii. Check puff shape iii. check puff shape iii. 10 hours Demonstration & Observation v. Check puff flavour and taste vi. Check puff flavour and taste 10 hours Mode vi. Check puff flavour and taste ii. Check puff appearance iii. Adhere to vi. Check puff appearance vii. concirm puff quantity meets with standing order III. Adhere to

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
6 Decord puff	. Elow of roporting line		<u>Safety:</u> i. Wear appropriate Personal Protective Equipment (PPE) ii. Adhere to kitchen safety, hygiene and health procedure	2 hour	Locture	i. Derecand
6. Record puff preparation activities	 i. Flow of reporting line ii. Puff preparation reporting format iii. Method of reporting puff preparation activities Verbal Checklist Written iv. Procedure of reporting puff preparation activities 			2 hour	Lecture	 Personnel involved determined Puff preparation activities reporting format determined Method of reporting dough puff preparation activities
		 i. Determine personnel involved ii. Determine puff preparation activities reporting format iii. Apply method of reporting puff preparation activities 		3 hours	Demonstration & Observation	applied iv. Puff preparation activities report generated v. Procedure of reporting

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		 iv. Generate puff preparation activities report v. Follow procedure of reporting puff preparation activities 	<u>Attitude:</u> i. Meticulous in writing report ii. Clarity and responsible in reporting puff preparation activities iii. Adhere to report submission dateline <u>Safety:</u> -Not applicable-			puff preparation activities followed

Employability Skills

Core Abilities	Social Skills
 01.10 Apply a variety of mathematical techniques. 01.11 Apply thinking skills and creativity. 02.09 Prepare flowcharts. 02.10 Prepare reports and instructions. 02.11 Convey information and ideas to people. 03.09 Manage and improve performance of individuals. 03.12 Provide coaching/on-the-job training. 03.13 Develop and maintain team harmony and resolve conflicts. 03.14 Facilitate and coordinate teams and ideas. 03.15 Liaise to achieve identified outcomes. 03.16 Identify and assess client/customer needs. 04.06 Allocate work. 05.01 Implement project/work plans. 05.02 Inspect and monitor work done and/or in progress. 06.07 Develop and maintain networks. 	 Communication skills Conceptual skills Interpersonal skills Multitasking and prioritizing Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
 Stationery Kitchen utensils(Pan, Scale, Measurement spoon & cups, Mixing bowl, puff cutter, rolling pin, scrapper, baking tray, wooden spoon, brush, sieve) Working table Mixer machine Dough sheeter Stove Oven Chillers Freezer Puff ingredients Puff standard recipe Packaging material Personal Protective Equipment (Safety boot, chef hat, disposable glove, apron) 	As required 1:2 1:4 1:4 1:20 1:4 1:20 1:4 1:20 1:20 1:20 1:20 1:20 1:11 1:1

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CURRICULUM of COMPETENCY UNIT (CoCU)

Sub Sector		FOOD AND BEVERAGES							
Job Area		BAKERY PRODUCTION							
Competency Unit T	itle	CROISSANT F	PREPARAT	ION					
Competency Unit D	cy Unit Descriptor Croissant preparation is to produce croissant product in accordance with standard recipe, product standing order, Hazard Analysis and Critical Control Points (HACCP), Good Manufacturing Practice requirements. The personnel who are competent in croissant preparation shall be able to cat preparation, product finishing, decoration and end product display to meet required quality and quant					ce (GMP) and Halal carry out croissant			
Competency Unit ID)	HT-013-3:20	011-C03	Level	3	Training Duration	240 Hours	Credit Hours	24
Work Activities	Related K	(nowledge	Арр	lied Skills		e / Safety / onmental	Training Hours	Delivery Mode	Assessment Criteria
1. Identify croissant preparation requirements	hygiene guideline • OSHA • Enviro	onmental y Act 1974 27) broduct iance P t standing on quantity time t standard					6 hours	Lecture	 i. Standing order interpreted ii. Production quantity determined iii. Delivery time determined iv. Standard recipe obtain v. Shape of croissant determined vi. Croissant preparation workflow determined

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Crescent Straight vii. Croissant preparation workflow 					
		 i. Interpret standing order ii. Determine production quantity iii. Determine delivery time iv. Obtain standard recipe v. Determine shape of croissant vi. Determine croissant preparation workflow 	<u>Attitude:</u> i. Resourceful in identifying croissant preparation requirements <u>Safety:</u> -Not applicable-	12 hours	Demonstration & Observation	
2. Prepare croissant <i>mise</i> <i>en place</i>	 i. Types of cooking utensils and equipment such as; Pan Scale Measurement cups 			24 hours	Lecture	i. Types of cooking utensils and equipment listed out ii. Function and

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Mixer Oven ii. Function and usage of cooking utensils and equipment croissant preparation iii. Croissant ingredients such as; Sugar Salt Milk Yeast Flour Egg Ice water Pastry butter 					usage of cooking utensils and equipment determined iii. Cooking utensils and equipment arranged iv. Croissant ingredients according to standard recipe determined
		 i. Determine types of cooking utensils and equipment ii. Determine function and usage of cooking utensils and equipment iii. Arrange cooking utensils and equipment iv. Determine croissant ingredients according to standard recipe 		40 hours	Demonstration & Observation	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			Attitude:i.Organise in preparing croissant mise en placeSafety:i.Careful in checking and testing equipment in good conditionii.Adhere to safety practice			
3. Carry out croissant preparation	 i. Method of mixing (straight dough) ii. Techniques of croissant preparation Mixing Kneading Rolling Folding Shaping Proofing Baking iii. Procedure of croissant preparation 			40 hours	Lecture	 i. Croissant standard recipe followed ii. Utensils and equipment utilised iii. Croissant ingredients measured according to standard recipe iv. Croissant
		 i. Follow croissant standard recipe ii. Utilise utensils and equipment iii. Measure croissant 		70 hours	Demonstration & Observation	ingredients mixed according to standard recipe

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		ingredients according to standard recipe iv. Mix croissant ingredients according to standard recipe v. Proove croissant dough according to standard recipe vi. Apply technique of croissant baking vii. Follow procedure of croissant preparation	Attitude:i. Adhere to hygiene practiseii. Neat and tidy in carrying out croissant preparationSafety:i. Wear appropriate Personal Protective Equipment (PPE)ii. Careful when handling sharp utensils and electrical equipmentiii. Adhere to kitchen safety, hygiene and health procedure			 v. Croissant dough prooved according to standard recipe vi. Technique of croissant baking applied vii. Procedure of croissant preparation followed

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
4. Carry out croissant finishing	 i. Types of croissant finishing Glazing Topping ii. Technique of glazing and topping iii. Method of croissant product display and packaging 			8 hours	Lecture	 Types of croissant finishing determined Croissant product glazed and topped according to standing order
		 i. Determine types of croissant finishing ii. Glaze and top croissant product according to standing order iii. Display and pack croissant product according to requirements 	<u>Attitude:</u> i. Adhere to hygiene practise ii. Neat and tidy in carrying out finishing work <u>Safety:</u> i. Wear appropriate Personal Protective Equipment (PPE) ii. Careful when	16 hours	Demonstration & Observation	iii. Croissant product displayed and packed according to requirements

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			handling equipment iii. Adhere to kitchen safety and health procedure			
5. Evaluate croissant quality and quantity	 i. Croissant shape ii. Croissant texture iii. Croissant aroma iv. Croissant colour v. Croissant flavour and taste vi. Croissant appearance vii. Croissant quantity and quality contribution factors Preparation process Temperature 	 i. Check croissant shape ii. Check croissant texture iii. Check croissant aroma iv. Check croissant colour v. Check croissant flavour and taste vi. Check croissant appearance vii. Confirm croissant quantity meets with standing order 		4 hours 8 hours	Demonstration & Observation	 i. Croissant shape checked ii. Croissant texture checked iii. Croissant aroma checked iv. Croissant colour checked v. Croissant flavour and taste checked vi. Croissant appearance checked vii. Croissant quantity meets with standing order confirmed

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<u>Attitude:</u> i. Responsible in checking croissant quality and quantity ii. Adhere to hygiene practise			
			<u>Safety:</u> i. Wear appropriate Personal Protective Equipment (PPE) ii. Adhere to kitchen safety, hygiene and health procedure			
6. Record croissant preparation activities	 i. Flow of reporting line ii. Croissant preparation reporting format iii. Method of reporting croissant preparation activities Verbal Checklist Written iv. Procedure of reporting croissant preparation activities 			4 hours	Lecture	 Personnel involved determined Croissant preparation activities reporting format determined Method of reporting croissant preparation activities

Work Activities Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 i. Determine personnel involved ii. Determine croissant preparation activities reporting format iii. Apply method of reporting croissant preparation activities iv. Generate croissant preparation activities report v. Follow procedure of reporting croissant preparation activities 	<u>Attitude:</u> i. Meticulous in writing report ii. Clarity and responsible in reporting croissant preparation activities iii. Adhere to report submission dateline <u>Safety:</u> -Not applicable-	8 hours	Demonstration & Observation	applied iv. Croissant preparation activities report generated v. Procedure of reporting croissant preparation activities followed

Employability Skills

Core Abilities	Social Skills
 01.10 Apply a variety of mathematical techniques. 01.11 Apply thinking skills and creativity. 02.09 Prepare flowcharts. 02.10 Prepare reports and instructions. 02.11 Convey information and ideas to people. 03.09 Manage and improve performance of individuals. 03.12 Provide coaching/on-the-job training. 03.13 Develop and maintain team harmony and resolve conflicts. 03.14 Facilitate and coordinate teams and ideas. 03.15 Liaise to achieve identified outcomes. 03.16 Identify and assess client/customer needs. 04.06 Allocate work. 05.01 Implement project/work plans. 05.02 Inspect and monitor work done and/or in progress. 06.07 Develop and maintain networks. 	 Communication skills Conceptual skills Interpersonal skills Multitasking and prioritizing Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
 Stationery Kitchen utensils(Pan, Scale, Measurement spoon & cups, Mixing bowl, croissant cutter, rolling pin, scrapper, baking tray, wooden spoon, brush, sieve) Working table Mixer machine Dough sheeter Stove Proover Oven Chillers Freezer Croissant ingredients Croissant standard recipe Packaging material Personal Protective Equipment (safety boot, Chef hat, disposable glove, apron) 	As required 1:2 1:4 1:4 1:20 1:4 1:20 1:4 1:20 1:20 1:20 1:20 1:20 1:20 1:20 1:20 1:20 1:21 1:4 1:1 1:1 1:1 1:1

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CURRICULUM of COMPETENCY UNIT (CoCU)

Sub Sector		FOOD AND BEVERAGES							
Job Area		BAKERY PRODUCTION							
Competency Unit Ti	tle	DANISH PASTRY PREPARATION							
Competency Unit D	cy Unit Descriptor Danish pastry preparation is to produce Danish pastry product in accordance with standard re (GMP) and Halal requirements. The personnel who are competent in Danish pastry preparation shal out Danish pastry preparation, product finishing, decoration and end product display to meet requirement.					ufacturing Practice all be able to carry			
Competency Unit ID)	HT-013-3:20	011-C04	Level	3	Training Duration	240 Hours	Credit Hours	24
Work Activities	Related F	Knowledge	Арр	lied Skills		le / Safety / onmental	Training Hours	Delivery Mode	Assessment Criteria
1. Identify Danish pastry preparation requirements	guideline • OSHA • Enviro Qualit (Act12 • Halal compl • HACC • GMP ii. Danish p order iii. Productio iv. Delivery v. Danish p recipe	practices es such as; onmental y Act 1974 27) oroduct iance P astry Standing on quantity					6 hours	Lecture	 i. Standing order interpreted ii. Production quantity determined iii. Delivery time determined iv. Standard recipe obtained v. Shape of Danish pastry determined vi. Danish pastry

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	such as: • Windmill • Comb • Pocket • Roll vii. Danish pastry preparation workflow					preparation workflow determined
		 i. Interpret standing order ii. Determine production quantity iii. Determine delivery time iv. Obtain standard recipe v. Determine shape of Danish pastry vi. Determine Danish pastry preparation workflow 	<u>Attitude:</u> i. Resourceful in identifying Danish pastry preparation requirements <u>Safety:</u> -Not applicable-	12 hours	Demonstration & Observation	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
2. Prepare Danish pastry <i>mise en</i> <i>place</i>	 i. Types of cooking utensils and equipment such as; Pan Scale Measurement cups Mixer Oven ii. Function and usage of cooking utensils and equipment for Danish pastry preparation iii. Danish pastry ingredients such as; Sugar Salt Milk Yeast Flour Egg Ice water Pastry butter 			24 hours	Lecture	 i. Types of cooking utensils and equipment determined ii. Function and usage of cooking utensils and equipment determined iii. Cooking utensils and equipment arranged iv. Danish pastry ingredients according to standard recipe determined
		 i. Determine types of cooking utensils and equipment ii. Determine function and usage of cooking utensils and equipment 		40 hours	Demonstration & Observation	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		i. Arrange cooking utensils and equipment ii. Determine Danish pastry ingredients according to standard recipe	<u>Attitude:</u> i. Organise in preparing Danish pastry <i>mise en</i> <i>place</i> <u>Safety:</u> i. Careful in checking and testing equipment in good condition ii. Adhere to safety practice			
3. Carry out Danish pastry preparation	 i. Method of mixing (straight dough) ii. Techniques of Danish pastry preparation Mixing Kneading Rolling Folding Shaping Prooving Baking Cooling 			40 hours	Lecture	 Danish pastry standard recipe interpreted Use utensils and equipment Danish pastry ingredients measured

Work Activities Re	elated Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		 i. Interpret Danish pastry standard recipe ii. Use utensils and equipment iii. Measure Danish pastry ingredients according to standard recipe iv. Mix Danish pastry ingredients according to standard recipe v. Proove Danish pastry dough according to standard recipe vi. Apply technique of Danish pastry baking vii. Follow procedure of Danish pastry preparation 	Attitude: i. Adhere to hygiene practise ii. Neat and tidy in carrying out Danish pastry preparation <u>Safety:</u> i. Wear appropriate Personal Protective Equipment (PPE)	70 hours	Demonstration & Observation	according to standard recipe iv. Danish pastry ingredients mixed according to standard recipe v. Danish pastry dough prooved according to standard recipe vi. Technique of Danish pastry baking applied vii. Procedure of Danish pastry preparation followed

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			 ii. Careful when handling sharp utensils and electrical equipment iii. Adhere to kitchen safety, hygiene and health procedure 			
4. Carry out Danish pastry finishing	 i. Types of Danish pastry finishing Glazing Topping Filling ii. Technique of glazing, topping and filling iii. Method of Danish pastry product display and packaging 			8 hours	Lecture	 Types of Danish pastry finishing determined Danish pastry product glazed, topped and filled
		 i. Determine types of Danish pastry finishing ii. Glazed, topped and filled Danish pastry product according to standing order iii. Display and pack Danish pastry product according to requirements 		16 hours	Demonstration & Observation	according to standing order iii. Danish pastry product displayed and packed according to requirements

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			Attitude:i.Adhere to hygiene practiseii.Neat and tidy in carrying out finishing workSafety:.i.Wear appropriate Personal Protective Equipment (PPE)ii.Careful when handling equipmentiii.Adhere to kitchen safety and health procedure			
5. Evaluate Danish pastry quality and quantity	 i. Danish pastry shape ii. Danish pastry texture iii. Danish pastry aroma iv. Danish pastry colour v. Danish pastry flavour and taste vi. Danish pastry gapearance vii. Danish pastry quantity and quality contribution factors Preparation process Temperature 			4 hours	Lecture	 i. Danish pastry shape checked ii. Danish pastry texture checked iii. Danish pastry aroma checked iv. Danish pastry colour checked v. Danish pastry colour checked v. Danish pastry flavour

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		 i. Check Danish pastry shape ii. Check Danish pastry texture iii. Check Danish pastry aroma iv. Check Danish pastry colour v. Check Danish pastry flavour and taste vi. Check Danish pastry appearance vii. Confirm Danish pastry quantity meets with standing order 	Attitude: i. Responsible in checking Danish pastry quality and quantity ii. Adhere to hygiene practise Safety: i. Wear appropriate Personal Protective Equipment (PPE) ii. Adhere to kitchen safety, hygiene and health procedure	8 hours	Demonstration & Observation	and taste checked vi. Danish pastry appearance checked i. Danish pastry quantity meets with standing order confirmed

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
6. Record Danish pastry preparation activities	 i. Flow of reporting line ii. Danish pastry preparation reporting format iii. Method of reporting Danish pastry preparation activities iv. Procedure of reporting Danish pastry preparation activities 			4 hours	Lecture	 Personnel involved determined Danish pastry preparation activities reporting format determined Method of
		 i. Determine personnel involved ii. Determine Danish pastry preparation activities reporting format iii. Apply method of reporting Danish pastry preparation activities iv. Generate Danish pastry preparation activities report v. Follow procedure of reporting Danish pastry preparation activities 	<u>Attitude:</u> i. Meticulous in writing report ii. Clarity and responsible in reporting Danish pastry	8 hours	Demonstration & Observation	reporting Danish pastry preparation activities applied iv. Danish pastry preparation activities report generated v. Procedure of reporting Danish pastry preparation activities followed

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			preparation activities iii. Adhere to report submission dateline			
			<u>Safety:</u> -Not applicable-			

Employability Skills

Core Abilities	Social Skills
 01.10 Apply a variety of mathematical techniques. 01.11 Apply thinking skills and creativity. 02.09 Prepare flowcharts. 02.10 Prepare reports and instructions. 02.11 Convey information and ideas to people. 03.09 Manage and improve performance of individuals. 03.12 Provide coaching/on-the-job training. 03.13 Develop and maintain team harmony and resolve conflicts. 03.14 Facilitate and coordinate teams and ideas. 03.15 Liaise to achieve identified outcomes. 03.16 Identify and assess client/customer needs. 04.06 Allocate work. 05.01 Implement project/work plans. 05.02 Inspect and monitor work done and/or in progress. 06.07 Develop and maintain networks. 	 Communication skills Conceptual skills Interpersonal skills Multitasking and prioritizing Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

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Sub Sector		FOOD AND B	EVERAGES	6					
Job Area		BAKERY PRODUCTION							
Competency Unit T	itle	BAKERY PRO	DUCT INNO	OVATION					
Competency Unit D	escriptor	Bakery product innovation is to produce improvement of existing products in according Procedure (SOP), standard recipe, production requirement, standing order, Haza Points (HACCP), Good Manufacturing Practice (GMP) and Halal requirements. The producing innovation bakery product shall be able to carry out bakery product innovation to the product shall be able to carry out bakery product innovation.			lazard Analysis a The personnel wh	and Critical Control			
Competency Unit I)	HT-013-3:2	011-C05	Level	3	Training Duration	122 Hours	Credit Hours	12
Work Activities	Related K	Cnowledge	Арр	lied Skills		de / Safety / ronmental	Training Hours	Delivery Mode	Assessment Criteria
 Identify bakery product innovation requirement 	guideline • OSH • Enviro Qualit (Act12 • Halal compl • HAC • GMP ii. Product i standing iii. Productio v. Delivery v. Bakery p	practices es such as; A onmental y Act 1974 27) product iance CP onnovation order on quantity time					4 hours	Lecture	 i. Standing order interpreted ii. Production quantity listed out iii. Delivery time determined iv. Types of bakery product innovation listed out v. Bakery product innovation preparation

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	recipe vi. Types of bakery product innovation such as: • Bread crumb • Bread pudding • Bread stick vii. Bakery product innovation preparation workflow					workflow listed out
		 i. Interpret standing order ii. Determine production quantity iii. Determine delivery time iv. Obtain standard recipe v. Determine types of bakery product innovation vi. Determine bakery product innovation preparation workflow 		6 hours	Demonstration & Observation	
			<u>Attitude:</u> i. Resourceful in identifying bakery product innovation preparation			

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
2. Prepare bakery	i. Types of cooking		requirements <u>Safety:</u> -Not applicable-	6 hour	Lecture	i. Types of
product innovation <i>mise</i> <i>en place</i>	 utensils and equipment such as; Pan Scale Measurement cups Bakery cutter Mixer Oven ii. Function and usage of cooking utensils and equipment for bakery product innovation preparation iii. Bakery product innovation ingredients such as; Bun Bread Puff Croissant Danish bakery Muffin Sour dough 					 cooking utensils and equipment listed out ii. function and usage of cooking utensils and equipment listed out iii. Cooking utensils and equipment Arranged accordingly iv. Bakery product innovation ingredients determined according to standard recipe

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		 i. Determine types of cooking utensils and equipment ii. Determine function and usage of cooking utensils and equipment iii. Arrange cooking utensils and equipment iv. Determine bakery product innovation ingredients according to standard recipe 	<u>Attitude:</u> i. Organise in preparing bakery product innovation <i>mise</i> <i>en place</i> <u>Safety:</u> i. Careful in checking and testing equipment in good condition ii. Adhere to safety practice	8 hours	Demonstration & Observation	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
3. Carry out bakery product innovation	 i. Straight mixing method ii. Techniques of bakery product innovation preparation Mixing Kneading Rolling Folding Shaping Baking 			22 hour	Lecture	 Bakery product innovation standard recipe followed thoroughly Utensils and equipment utilised correctly Bakery
		 i. Follow bakery product innovation standard recipe ii. Utilise utensils and equipment iii. Measure bakery product innovation ingredients according to standard recipe iv. Mix bakery product innovation ingredients according to standard recipe v. Apply bakery product innovation dough folding technique vi. Apply shaping technique according to standing order vii. Apply bakery product 		48 hours	Demonstration & Observation	 III. Dakery product innovation ingredients according to standard recipe measured iV. bakery product innovation dough ingredients mixed according to standard recipe V. Bakery product innovation dough folding

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		innovation baking technique	 <u>Attitude:</u> Adhere to hygiene practise Neat and tidy in carrying out bakery product innovation preparation <u>Safety:</u> Wear appropriate Personal Protective Equipment (PPE) Careful when handling sharp utensils and electrical equipment Adhere to kitchen safety, hygiene and health procedure 			applied vi. Shaping technique applied according to standing order vii. Bakery product innovation baking technique applied
4. Carry out bakery product innovation finishing and decoration	 i. Types of bakery product innovation finishing Filling Glazing Topping ii. Technique of filling, glazing, coating and 			4 hour	Lecture	 Types of bakery product innovation finishing listed out Filled, glazed,

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	topping iii. Method of bakery product innovation product display and packaging					coated and topped bakery product innovation according to standing order
		 i. Determine types of bakery product innovation finishing ii. Fill, glaze, coat and top bakery product innovation according to standing order iii. Display and pack bakery product innovation according to requirements 	Attitude:	12 hours	Demonstration & Observation	iii. Displayed and packed bakery product innovation according to requirements
			 Adhere to hygiene practise Neat and tidy in carrying out finishing and decoration 			
			<u>Safety:</u> i. Wear appropriate Personal Protective Equipment (PPE) ii. Careful when			

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			handling equipment Adhere to kitchen safety and health procedure			
5. Check bakery product innovation quality and quantity	 i. Bakery product innovation appearance ii. Bakery product innovation shape iii. Bakery product innovation texture iv. Bakery product innovation aroma v. Bakery product innovation colour vi. Bakery product innovation flavour and taste vii. Bakery product innovation appearance viii. Bakery product innovation quantity and quality contribution factors Preparation process Temperature 			2 hours	Lecture	 Bakery product innovation appearance confirmed Bakery product innovation shape confirmed Bakery product innovation texture confirmed Bakery product innovation texture Bakery product innovation aroma confirmed Bakery product innovation aroma confirmed

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		 i. Check bakery product innovation appearance ii. Check bakery product innovation shape iii. Check bakery product innovation texture iv. Check bakery product innovation aroma v. Check bakery product innovation colour vi. Check bakery product innovation flavour and taste vii. Check bakery product innovation appearance viii. Confirm bakery product innovation quantity meets with standing order 	<u>Attitude:</u> i. Responsible in checking bakery product innovation quality and quantity ii. Adhere to hygiene practise	4 hours	Demonstration & Observation	vi. Bakery product innovation flavour and taste confirmed vii. Bakery product innovation appearance confirmed viii. Bakery product innovation quantity confirmed
			<u>Safety:</u>			

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			 i. Wear appropriate Personal Protective Equipment (PPE) ii. Adhere to kitchen safety, hygiene and health procedure 			
6. Record bakery product innovation production activities	 i. Flow of reporting line ii. Bakery product innovation reporting format iii. Method of reporting bakery product innovation activities Verbal Checklist Written iv. Procedure of reporting bakery product innovation activities 			2 hour	Lecture	 Bakery product innovation activities reporting format determined Method of reporting bakery product innovation activities applied Bakery
		 Determine personnel involved Determine bakery product innovation activities reporting format Apply method of reporting bakery product innovation 		4 hours	Demonstration & Observation	in. Dakery product innovation activities report generated iv. Procedure of reporting bakery product

Work Activities Related Know	ledge Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	activities iv. Generate bakery product innovation activities report v. Follow procedure of reporting bakery product innovation activities	<u>Attitude:</u> i. Meticulous in writing report ii. Clarity and responsible in reporting bakery product innovation preparation activities iii. Adhere to report submission dateline <u>Safety:</u> -Not applicable-			innovation activities followed

Employability Skills

Core Abilities	Social Skills
 01.10 Apply a variety of mathematical techniques. 01.11 Apply thinking skills and creativity. 02.09 Prepare flowcharts. 02.10 Prepare reports and instructions. 02.11 Convey information and ideas to people. 03.09 Manage and improve performance of individuals. 03.12 Provide coaching/on-the-job training. 03.13 Develop and maintain team harmony and resolve conflicts. 03.14 Facilitate and coordinate teams and ideas. 03.15 Liaise to achieve identified outcomes. 03.16 Identify and assess client/customer needs. 04.06 Allocate work. 05.01 Implement project/work plans. 05.02 Inspect and monitor work done and/or in progress. 06.07 Develop and maintain networks. 	 Communication skills Conceptual skills Interpersonal skills Multitasking and prioritizing Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

1. StationeryAs required2. Kitchen utensils (Pan, Scale, Measurement spoon & cups, Mixing bowl, bakery product innovation cutter, rolling pin, scrapper, baking tray, wooden spoon, brush, sieve)1:43. Working table1:44. Mixer machine1:45. Dough sheeter1:206. Stove1:47. Oven1:208. Chillers1:209. Freezer1:2010. Bakery product innovation ingredients1:111. Bakery product innovation standard recipe1:112. Packaging material1:113. Personal Protective Equipment (safety boot, Chef hat, disposable glove, arron)1:1	ITEMS	RATIO (TEM : Trainees)
	 Kitchen utensils (Pan, Scale, Measurement spoon & cups, Mixing bowl, bakery product innovation cutter, rolling pin, scrapper, baking tray, wooden spoon, brush, sieve) Working table Mixer machine Dough sheeter Stove Oven Chillers Freezer Bakery product innovation ingredients Bakery product innovation standard recipe Packaging material 	As required 1:4 1:4 1:4 1:20 1:4 1:20 1:4 1:20 1:20 1:20 1:20 1:20 1:1 1:1

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Sub Sector		FOOD AND B	FOOD AND BEVERAGES						
Job Area		BAKERY PRO	DUCTION						
Competency Unit Ti	itle	BAKERY PRO	DUCTION C	CONTROL					
Competency Unit D	escriptor	or Bakery production control is to manage, control, planning and scheduling production in accordance. Operating Procedure (SOP), production requirement, standing order, Hazard Analysis and Critica (HACCP), Good Manufacturing Practice (GMP) and Halal requirements. The personnel who ar production control shall be able to prepare production subordinate tasking and monitor bakery production meet required quality and quantity.				ritical Control Points o are competent in			
Competency Unit ID)	HT-013-3:2	011-C06	Level	3	Training Duration	60 Hours	Credit Hours	6
Work Activities	Related H	Knowledge	Арр	lied Skills		le / Safety / onmental	Training Hours	Delivery Mode	Assessment Criteria
 Identify bakery production control requirements 	guideline OSH Envir Qual (Act1 Hala	practices es such as; A ronmental ity Act 1974 (27) I product bliance CP bakery such as:					3 hours	Lecture	 i. Types of bakery product listed out ii. Determine bakery production workflow listed out iii. Production capacity and capability determined iv. Production quantity and quality specification

Work Activities Relate	d Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
 Da iii. Baker workfl iv. Detern capace Ma Ut Ec Ma 	roissant anish y production ow mine production city and capability anning censils and quipment aterials ery procedure					determined V. Delivery procedure determined
	i. ii. iii. iv.	 i. Determine types of bakery product i. Determine bakery production workflow ii. Determine production capacity and capability v. Determine production quantity and quality specification v. Determine delivery procedure 	Attitude: i. Resourceful in identifying bakery production control requirements <u>Safety:</u> -Not applicable-	3 hours	Demonstration & Observation	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
2. Arrange bakery production control activities	 i. Production checklist ii. Standing order iii. Bakery products standard recipe iv. Materials requisition v. Production subordinate tasking and schedule vi. Functionality of tools and equipment vii. Maintenance schedule 			2 hour	Lecture	 i. Production checklist prepared ii. Standing order prepared kitchen work order iii. Materials requisition prepared iv. Production
		 i. Prepare production checklist ii. Prepare standing order/kitchen work order iii. Obtain standard recipe iv. Prepare materials requisition v. Plan production subordinate tasking and schedule vi. Check functionality of tools and equipment vii. Organise maintenance schedule 	<u>Attitude:</u> i. Organise in arranging bakery production control activities	6 hours	Demonstration & Observation	subordinate tasking and schedule planned V. Functionality of tools and equipment checked Vi. Maintenance schedule organised

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<u>Safety:</u> i. Adhere to safety practice			
3. Carry out bakery production control activities	 i. Subordinate tasking ii. Bakery production activities iii. Bakery products quality and quantity iv. Product compliance with standard recipe and standing order v. Food testing activities to control quality of products vi. Customer feedback on bakery products quality 			8 hour	Lecture	 i. Subordinate tasking assigned ii. bakery products production activities monitored iii. Bakery products quality and quantity inspected iv. Product compliance checked with
		 i. Assign subordinate tasking ii. Monitor bakery products production activities iii. Inspect bakery products quality and quantity iv. Check product compliance with standard recipe and standing order 		26 hours	Demonstration & Observation	standard recipe and standing order V. Food testing activities executed Vi. Bakery products delivery coordinated

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		 V. Execute food testing activities to control quality of products vi. Coordinate bakery products delivery vii. Obtain customer feedback on bakery products quality 				
			 <u>Attitude:</u> Responsible and firm in checking product quality Adhere to hygiene practise <u>Safety:</u> Wear appropriate Personal Protective Equipment (PPE) Adhere to kitchen safety and health procedure 			
4. Check effectiveness of bakery production control activities	and tasking ii. Bakery products quality			2 hour	Lecture	 Effectiveness of subordinate's schedule and tasking confirmed Bakery products quality

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	iv. Effectiveness of quality control activities in order to avoid spoilage and wastage of bakery products	i. Evaluate effectiveness of subordinate's		4 hours	Demonstration &	and quantity confirmed iii. Validity of customer feedback confirmed iv. Effectiveness of
		 schedule and tasking ii. Evaluate bakery products quality and quantity iii. Evaluate validity of customer feedback iv. Evaluate effectiveness of quality control activities in order to avoid spoilage and wastage of bakery products 			Observation	quality control activities in order to avoid spoilage and wastage of bakery products confirmed
			<u>Attitude:</u> i. Responsible in checking bakery production control effectiveness ii. Adhere to hygiene practise <u>Safety:</u> i. Wees concerning			
			i. Wear appropriate Personal Protective			

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			Equipment (PPE) ii. Adhere to kitchen safety, hygiene and health procedure			
5. Prepare bakery production control activities report	 i. Flow of reporting line ii. Bakery production control reporting format iii. Method of reporting bakery production control activities Verbal Checklist Written iv. Procedure of reporting bakery production control activities 			2 hour	Lecture	 Bakery production control activities reporting format determined Method of reporting bakery production control activities applied Bakery production control activities
		 i. Determine personnel involved ii. Determine bakery production control activities reporting format iii. Apply method of reporting bakery production control activities iv. Generate bakery production control 		4 hours	Demonstration & Observation	report generated iv. Procedure of reporting bakery production control activities followed

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		activities report v. Follow procedure of reporting bakery production control activities				
			Attitude: i. Meticulous in writing report ii. Clarity and responsible in reporting bakery production control activities iii. Adhere to report submission dateline <u>Safety:</u> -Not applicable-			

Employability Skills

Core Abilities	Social Skills
 01.10 Apply a variety of mathematical techniques. 01.11 Apply thinking skills and creativity. 02.09 Prepare flowcharts. 02.10 Prepare reports and instructions. 02.11 Convey information and ideas to people. 03.09 Manage and improve performance of individuals. 03.10 Provide consultations and counselling. 03.11 Monitor and evaluate performance of human resources. 03.12 Provide coaching/on-the-job training. 03.13 Develop and maintain team harmony and resolve conflicts. 03.14 Facilitate and coordinate teams and ideas. 03.15 Liaise to achieve identified outcomes. 03.16 Identify and assess client/customer needs. 03.17 Identify staff training needs and facilitate access to training. 04.06 Allocate work. 05.01 Implement project/work plans. 05.02 Inspect and monitor work done and/or in progress. 06.07 Develop and maintain networks. 	 Communication skills Conceptual skills Interpersonal skills Multitasking and prioritizing Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

1. StationeryAs required2. Kitchen utensils1:43. Kitchen equipment1:204. Bakery ingredients1:15. Bakery product standard recipe1:16. Quality control documents(Checklist form, requisition form, Inter kitchen1:1	ITEMS	RATIO (TEM : Trainees)
form, spoilage form) 7. Personal Protective Equipment (safety boot, Chef hat, disposable glove, apron)	 Kitchen utensils Kitchen equipment Bakery ingredients Bakery product standard recipe Quality control documents(Checklist form, requisition form, Inter kitchen form, spoilage form) Personal Protective Equipment (safety boot, Chef hat, disposable glove, 	1:4 1:20 1:1 1:1 1:1

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- 4. Gail Sokol, Thomson Delmar Lerning (2006), About Professional Baking 2nd Edition.
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- 7. Joseph Amendola, Nicole Rees, John Wiley & Sons. (2002) The Baker's Manual Fifth Edition, ISBN 0-471-40525-6
- 8. Karangkraf, Bakeri. ISBN: 978-967-5234-98-9
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- 10. Y.H.Hui, Harold Corke, Wiley Blacwell (2006), Bakery Products, Science and Technology, ISBN: 9-780-81380187-2

Sub Sector		FOOD AND BEVERAGES							
Job Area	BAKERY PRO	BAKERY PRODUCTION							
Competency Unit Ti	itle	BAKERY PRO	DUCTION S	STOCK CONTRO	L				
Competency Unit D	requirement, F	lazard Anal The person	ysis and Critical	Control Po	oints (HACCP), Good Man	ufacturing Practic	e (SOP), production e (GMP) and Halal control activities to	
Competency Unit ID)	HT-013-3:20	011-C07	Level	3	Training Duration	60 Hours	Credit Hours	6
Work Activities	Work Activities Related Knowledge		Арр	lied Skills		e / Safety / onmental	Training Hours	Delivery Mode	Assessment Criteria
1. Identify bakery production stock control requirements	hygiene guideline • OSH • Envir Qual (Act1 • Halal comp • HAC • GMF ii. Productio iii. Types of such as; • Mate – Pe – Dr	ronmental ity Act 1974 27) I product bliance CP on quantity stock control rials erishable					3 hours	Lecture	 i. Production quantity determined ii. Types of stock control determined iii. Stock control Standard Operating Procedures (SOP) determined iv. Stock control workflow determined

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Utensils Equipment Types of storage area Dry store Chillers Freezer Chocolate room V. Stock control workflow 					
		 i. Determine production quantity ii. Determine types of stock control iii. Determine storage area iv. Determine stock control Standard Operating Procedures (SOP) v. Determine stock control workflow 	<u>Attitude:</u> i. Resourceful in identifying bakery production stock control requirements <u>Safety:</u> -Not applicable-	3 hours	Demonstration & Observation	

Work Activities	Related Knowledge	ted Knowledge Applied Skills		Training Hours	Delivery Mode	Assessment Criteria	
Work Activities 2. Arrange bakery production stock control activities	Related Knowledge i. Organisation chart ii. Stock control documentation such as; • Requisition form • Inter kitchen transfer form • Market list • Spoilage form • Forecast report iii. Schedule format for receiving and issuing stock iv. Procedures of receiving and issuing of stock	i. Determine personnel/department involved ii. Obtain stock control	Attitude / Safety / Environmental				
		 II. Obtain stock control documentation iii. Organise schedule for receiving and issuing of stock 	Attitudo				
			<u>Attitude:</u> i. Organise in arranging bakery production stock control activities				

Work Activities Related Knowledge		Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria	
			<u>Safety:</u> i. Adhere to safety practice				
3. Carry out bakery production stock control activities	 Inventory stock record format Stock arrangement procedures 			10 hour	Lecture	i. Consumption usage of bakery material determined	
		 i. Determine consumption usage of bakery material ii. Update inventory stock record iii. Fill up stock requisition form iv. Verify stock arrangement 	Attitude: i. Meticulous in updating inventory record <u>Safety:</u> i. Wear appropriate Personal Protective Equipment (PPE) ii. Adhere to kitchen safety and health	24 hours	Demonstration & Observation	ii. Inventory stock record updated	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria	
			procedure				
4. Check bakery production stock control activities	i. Stock keeping record and filingii. Procedures of issuing and ordering of stock			2 hour	Lecture	i. Stock inventory accurately confirmed ii. Stock keeping	
		 i. Check stock inventory accurately ii. Check stock keeping record and filing accessibility iii. Check issuing and ordering of stock comply with procedures 		4 hours	Demonstration & Observation	record and filing accessibility checked	
			<u>Attitude:</u> i. Responsible in checking stock control <u>Safety:</u> -Not applicable				
5. Prepare bakery production stock control report	 i. Flow of reporting line ii. Stock control reporting format iii. Method of reporting stock control activities Verbal 			2 hour	Lecture	 Method of reporting stock control activities applied Stock control 	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Checklist Written iv. Procedure of reporting stock control activities 			2 hours	Domonstration	activities report generated iii. procedure of reporting stock control
		 i. Determine personnel involved ii. Determine stock control activities reporting format iii. Apply method of reporting stock control activities iv. Generate stock control activities report v. Follow procedure of reporting stock control activities 	Attitude: i. Meticulous in writing report ii. Clarity and responsible in reporting bakery production stock control activities iii. Adhere to report submission dateline Safety:	2 hours	Demonstration & Observation	activities followed

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			-Not applicable-			

Employability Skills

Core Abilities	Social Skills
 01.10 Apply a variety of mathematical techniques. 01.11 Apply thinking skills and creativity. 02.09 Prepare flowcharts. 02.10 Prepare reports and instructions. 02.11 Convey information and ideas to people. 03.09 Manage and improve performance of individuals. 03.10 Provide consultations and counselling. 03.11 Monitor and evaluate performance of human resources. 03.12 Provide coaching/on-the-job training. 03.13 Develop and maintain team harmony and resolve conflicts. 03.14 Facilitate and coordinate teams and ideas. 03.15 Liaise to achieve identified outcomes. 03.16 Identify and assess client/customer needs. 03.17 Identify staff training needs and facilitate access to training. 04.06 Allocate work. 05.01 Implement project/work plans. 05.02 Inspect and monitor work done and/or in progress. 06.07 Develop and maintain networks. 	 Communication skills Conceptual skills Interpersonal skills Multitasking and prioritizing Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
 Stationery Kitchen utensils Kitchen equipment Bakery product material Packaging material Personal Protective Equipment (Safety boot, chef hat, disposable glove, apron) 	As required As required As required 1:1 1:1 1:1 1:1
 Requisition form Inter kitchen transfer form Market list Spoilage form 	1:1 1:1 1:1 1:1

References

REFERENCES Bo Friberg Van Nostrand Reinhold A Division of International Thompson Publishing Inc, The PROFESSIONAL Bakery Chef, Third Edition, ISBN 0-442-01597-6 Gisslen, W., John Wiley & Sons, Inc. (2009), Professional Baking 5th Edition. Joseph Amendola, Nicole Rees, John Wiley & Sons. (2002) The Baker's Manual Fifth Edition, ISBN 0-471-40525-6 Lian M., Times Book International Singapore (1981), Guide to Hotel & Catering Services, ISBN 9-971-65093-2 Wyne Gisslen, John Wailey and Sons (2009), Professional Baking 5th Edition.

- 6. Y.H.Hui, Harold Corke, Wiley Blacwell (2006), Bakery Products, Science and Technology, ISBN: 9-780-81380187-2
- 7. Andrew H.Feinstein & John M.Stetanelli, John Wiley & Sons (2008), Purchasing: Selection & Procurement for the Hospitality Industry

Sub Sector		FOOD AND BEVERAGES								
Job Area		BAKERY PRO	ERY PRODUCTION							
Competency Unit Title	e	BAKERY ADM	INISTRATI	/E FUNCTION						
Competency Unit Des	scriptor	Operating Pro	cedure (SOI	P) and productio	n requirem	ent. The pers	onnel who a		lance with Standard bakery administrative and quantity.	
Competency Unit ID		HT-013-3:2	011-E01	Level	3	Training Duration	60 Hours	Credit Hours	6	
Work Activities	Related K	Inowledge	Арр	lied Skills		le / Safety / onmental	Training Hours	Delivery Mode	Assessment Criteria	
administrative function i requirements	i. Staff quali requireme ii. Staff deve needs iii. Area of im	ent elopment			ident	ourceful in ifying bakery nistrative ion	2 hours 4 hours	Lecture Demonstration & Observation	 i. Staff qualification requirement determined ii. Staff development requirement determine iii. Area of improvement listed out 	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			requirements <u>Safety:</u> -Not applicable-			
2. Plan bakery administrative activities	 i. Subordinates performance appraisal ii. Subordinates profile iii. Types of staff development program such as; Training session Counseling session Motivation session iv. Training requirements Schedule Personnel Location Budget Facilities V. Procedure to prepare staff development proposal 			4 hour	Lecture	 i. Subordinates qualification/ capabilities determined ii. Plan staff development program planned iii. Prepare staff development program proposal generated iv. Training requirements determined
		 i. Obtain subordinates performance appraisal ii. Determine subordinates qualification/ capabilities 		8 hours	Demonstration & Observation	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		 iii. Plan staff development program iv. Prepare staff development program proposal v. Determine training requirements vi. Follow procedure to prepare staff development proposal 	<u>Attitude:</u> i. Resourceful in obtaining subordinates performance appraisal ii. Responsible in preparing staff development program proposal <u>Safety:</u> -Not applicable-			
 Carry out bakery administrative activities 	 i. Staff development program schedule ii. Training equipment and materials iii. Staff development program coordination 			8 hour	Lecture	 Staff development program schedule determined Staff

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	iv. Subordinates appraisalv. Staff career development					development program coordinated iii. Subordinates
		 i. Determine staff development program schedule ii. Obtain training equipment and materials iii. Coordinate staff development program iv. Conduct subordinates appraisal v. Propose staff career development 	<u>Attitude:</u> i. Systematic in coordinating staff development program ii. No bias in proposing staff career development <u>Safety:</u> -Not applicable	24 hours	Demonstration & Observation	appraisal conducted iv. Staff career development proposed

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
4. Evaluate effectiveness of bakery administrative activities	eness of trative s trative s			2 hour	Lecture	 i. Suitability of staff development program schedule confirmed ii. Functionality & suitability of training equipment and materials confirmed iii. Effectiveness of staff development program coordination
		 i. Check suitability of staff development program schedule ii. Check functionality & suitability of training equipment and materials iii. Check effectiveness of staff development program coordination iv. Examine staff development program effectiveness v. Check validity of subordinates appraisal 		4 hours	Demonstration & Observation	confirmed iv. Validity of subordinates appraisal confirmed v. Suitability of staff career development proposal confirmed

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		vi. Check suitability of staff career development proposal	<u>Attitude:</u> i. Responsible in checking effectiveness of bakery administrative activities <u>Safety:</u> -Not applicable-			
	 i. Flow of reporting line ii. Bakery administrative function reporting format iii. Method of reporting bakery administrative function activities Verbal Checklist Written iv. Procedure of reporting bakery administrative function activities 			2 hour	Lecture	 Bakery administrative function activities reporting format determined Method of reporting bakery administrative function activities applied

Work Activities Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 i. Determine personnel involved ii. Determine bakery administrative function activities reporting format iii. Apply method of reporting bakery administrative function activities iv. Generate bakery administrative function activities report v. Follow procedure of reporting bakery administrative function activities 	Attitude: i. Meticulous in writing report ii. Clarity and responsible in reporting bakery administrative activities iii. Adhere to report submission dateline	2 hours	Demonstration & Observation	
		<u>Safety:</u> -Not applicable-			

Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Related Knowledge	Related Knowledge Applied Skills			

Employability Skills

Core Abilities	Social Skills
 01.10 Apply a variety of mathematical techniques. 01.11 Apply thinking skills and creativity. 02.09 Prepare flowcharts. 02.10 Prepare reports and instructions. 02.11 Convey information and ideas to people. 03.09 Manage and improve performance of individuals. 03.10 Provide consultations and counselling. 03.11 Monitor and evaluate performance of human resources. 03.12 Provide coaching/on-the-job training. 03.13 Develop and maintain team harmony and resolve conflicts. 03.14 Facilitate and coordinate teams and ideas. 03.15 Liaise to achieve identified outcomes. 03.16 Identify and assess client/customer needs. 03.17 Identify staff training needs and facilitate access to training. 04.06 Allocate work. 05.01 Implement project/work plans. 05.02 Inspect and monitor work done and/or in progress. 06.07 Develop and maintain networks. 	 Communication skills Conceptual skills Interpersonal skills Multitasking and prioritizing Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
 Stationeries Audio Visual Aids (LCD projector, Computer set) Training materials Standard Operating Procedures (SOP) 	1:1 1:20 1:1 1:1

References

REF	ERENCES
1.	Bo Friberg Van Nostrand Reinhold A Division of International Thompson Publishing Inc, The PROFESSIONAL Bakery Chef, Third Edition, ISBN 0- 442-01597-6
2.	Courtine R.J., The Hamlyn Publishing Group London (1988) Larousse Gastronomique Cookery Encyclopaedia, ISBN 0-749-30316-6
3.	Gisslen, W., John Wiley & Sons, Inc. (2009), Professional Baking 5 th Edition.
4.	Lian M., Times Book International Singapore (1981), Guide to Hotel & Catering Services, ISBN 9-971-65093-2
5.	Y.H.Hui, Harold Corke, Wiley Blacwell (2006), Bakery Products, Science and Technology, ISBN: 9-780-81380187-2
6.	Mary L.Tanke, Thomson Learning (2 nd Edition), Human Resource Management for the Hospitality Industry, ISBN: 0-8273-7321-x
7.	M.J.Boella, (2000), Human Resource Management in the Hospitality Industry, ISBN: 0-7487-4566-0

8. Robert J. Martin, Donald E. (1992) Human Relation for the Hospitality Industry

CURRICULUM of COMPETENCY UNIT (CoCU)

Sub Sector		FOOD AND BEVERAGES						
Job Area	Job Area BAKERY PRODUCTION							
Competency Unit T	itle	BAKERY PRO	DUCT COS	TING				
Competency Unit D	escriptor	Procedure (SC	DP) and pro	duction requireme	d estimate bakery proc ent. The personnel who vities to meet required q	are compete		
Competency Unit I)	HT-013-3:2	011-E02	Level	3 Training Duration	36 Hours	Credit Hours	3
Work Activities	Related K	Knowledge	Арр	lied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
 Identify bakery product costing requirements 	 Cakes Frozel Puddii Cookia Malay iii. Bakery pro Raw n Packa Labou 	bakery such as; ctionary n desserts ng es sian desserts oduct cost naterials cost iging cost r cost overheads				2 hours	Lecture	 i. Types of bakery product listed out ii. Bakery product cost listed out iii. Bakery product costing workflow determined

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		 i. Determine types of bakery product ii. Determine personnel/department involve iii. Determine bakery product cost iv. Determine bakery product costing workflow 	<u>Attitude:</u> i. Resourceful in identifying bakery product costing <u>Safety:</u> -Not applicable-	2 hours	Demonstration & Observation	
2. Arrange bakery product costing activities	 i. Bakery product standard recipe ii. Materials price list iii. Costing sheet format 			2 hour	Lecture	i. Costing sheet format prepared
		 i. Obtain bakery product standard recipe ii. Obtain materials price list 		2 hours	Demonstration & Observation	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		iii. Prepare costing sheet format	<u>Attitude:</u> i. Resourceful in obtaining materials price list ii. Organise in arranging bakery product costing activities <u>Safety:</u> -Not applicable-			
3. Carry out bakery product costing activities	 i. Basic mathematical skill such as; Conversion unit Formula ii. Tabulate bakery product costing iii. Calculate bakery product costing 			4 hour	Lecture	 Bakery product recipe interpreted thoroughly basic mathematical skill applied Bakery product costing
		 Interpret bakery product recipe Apply basic mathematical skill Tabulate bakery product costing 		20 hours	Demonstration & Observation	tabulated iv. Bakery product costing calculated

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
		iv. Calculate bakery product costing	<u>Attitude:</u> i. Meticulous in calculating product costing <u>Safety:</u> -Not applicable-			
4. Check accuracy of bakery product costing	 Accuracy of bakery product costing tabulation Accuracy of bakery product costing calculation 			1 hour	Lecture	 Accuracy of bakery product costing tabulation confirmed Accuracy of
		 i. Check accuracy of bakery product costing tabulation ii. Check accuracy of bakery product costing calculation 		1 hours	Demonstration & Observation	bakery product costing calculation confirmed
			<u>Attitude:</u> i. Responsible in checking accuracy of bakery product costing			
			<u>Safety:</u> -Not applicable-			

Work Activities	Related Knowledge Applied Skills		Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria	
5. Prepare bakery product costing activities report	 i. Flow of reporting line ii. Bakery product costing reporting format iii. Method of reporting bakery product costing activities Verbal Checklist Written iv. Procedure of reporting bakery product costing activities 			1 hour	Lecture	 i. Bakery product costing activities reporting format determined ii. Method of reporting bakery product costing activities 	
		product costing activities reporting format iii. Apply method of reporting bakery product costing activities iv. Generate bakery product costing activities report		1 hours	Demonstration & Observation	applied iii. Bakery product costing activities report generated	

Work Activities	Related Knowledge	Applied Skills	Attitude / Safety / Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<u>Attitude:</u> i. Meticulous in writing report ii. Clarity and responsible in reporting bakery production stock control activities iii. Adhere to report submission dateline <u>Safety:</u> -Not applicable-			

Employability Skills

Core Abilities	Social Skills
 01.10 Apply a variety of mathematical techniques. 01.11 Apply thinking skills and creativity. 02.09 Prepare flowcharts. 02.10 Prepare reports and instructions. 02.11 Convey information and ideas to people. 03.09 Manage and improve performance of individuals. 03.10 Provide consultations and counselling. 03.11 Monitor and evaluate performance of human resources. 03.12 Provide coaching/on-the-job training. 03.13 Develop and maintain team harmony and resolve conflicts. 03.14 Facilitate and coordinate teams and ideas. 03.15 Liaise to achieve identified outcomes. 03.16 Identify and assess client/customer needs. 03.17 Identify staff training needs and facilitate access to training. 04.06 Allocate work. 05.01 Implement project/work plans. 05.02 Inspect and monitor work done and/or in progress. 06.07 Develop and maintain networks. 	 Communication skills Conceptual skills Interpersonal skills Multitasking and prioritizing Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)		
 Stationeries Computer set Calculation tool Bakery product standard recipe Materials price list Costing sheet Standard Operating Procedures (SOP) 	1:1 1:4 1:1 1:1 1:1 1:1 1:1		

References

REFERENCES	
 Bo Friberg Van Nostrand Reinhold A Division of International Thompson Publishing Inc, The PROFESSIONAL Bakery Chef, Third Edition, ISBN 0- 442-01597-6 	

- 2. Courtine R.J., The Hamlyn Publishing Group London (1988) Larousse Gastronomique Cookery Encyclopaedia, ISBN 0-749-30316-6
- 3. Gisslen, W., John Wiley & Sons, Inc. (2009), Professional Baking 5th Edition.
- 4. Lian M., Times Book International Singapore (1981), Guide to Hotel & Catering Services, ISBN 9-971-65093-2
- 5. Y.H.Hui, Harold Corke, Wiley Blacwell (2006), Bakery Products, Science and Technology, ISBN: 9-780-81380187-2
- 6. Lea R.DOpson & David K.Heyes, John Wiley & Sons (2009) Managerial Accounting for the Hospitality Industry

SUMMARY OF TRAINING DURATION FOR BAKERY PRODUCTION	(LEVEL 3)	
COMMAND OF TRAINING DORATION OR DARENT TRODUCTION		

		SUMMARY OF TRAINING DURATION FOR BAKERY PRO		RELATED SKILLS	HOURS	
NO. ID	TITLE	WORK ACTIVITIES	KNOWLEDGE (A)	(B)	(A) + (B)	TOTAL (HRS)
HT-013-3:2011-C01		Identify bread preparation requirements	3	6	9	
		Prepare bread mise en place	12	20	32	
	BREAD	Carry out bread preparation	20	35	55	
HT-013-3.2011-C01	PREPARATION	Carry out bread product finishing	4	8	12	120
		Evaluate bread product quality and quantity	2	4	6	
		Record bread preparation activities	2	4	6	
		Identify puff preparation requirements	3	4	7	
		Prepare puff mise en place	1	2	3	
HT-013-3:2011-C02	PUFF	Carry out puff preparation	1	4	5	40
HT-013-3.2011-C02	PREPARATION	Carry out puff product finishing	2	5	7	40
		Evaluate puff product quality and quantity	3	10	13	
		Record puff preparation activities	2	3	5	
		Identify croissant preparation requirements	6	12	18	
		Prepare croissant mise en place	24	40	64	
HT-013-3:2011-C03	CROISSANT PREPARATION	Carry out croissant preparation	40	70	110	- 240
HI-013-3.2011-C03		Carry out croissant product finishing	8	16	24	
		Evaluate croissant product quality and quantity	4	8	12	
		Record croissant preparation activities	4	8	12	
	DANISH PASTRY PREPARATION	Identify Danish pastry preparation requirements	6	12	18	240
		Prepare Danish pastry mise en place	24	40	64	
UT 012 3:2011 CO4		Carry out Danish pastry preparation	40	70	110	
HT-013-3:2011-C04		Carry out Danish pastry product finishing	8	16	24	
		Evaluate Danish pastry product quality and quantity	4	8	12	
		Record Danish pastry preparation activities	4	8	12	
		Identify bakery product innovation requirement	4	6	10	
		Prepare bakery product innovation mise en place	6	8	14	
HT-013-3:2011-C05	BAKERY PRODUCT	Carry out bakery product innovation	22	48	70	122
	INNOVATION	Carry out bakery product innovation finishing	4	12	16	122
		Evaluate bakery product innovation quality and quantity	2	4	6	
		Record bakery product innovation production activities	2	4	6	
		Identify bakery product control requirement	3	3	6	
		Plan bakery production control activities	2	6	8	
HT-013-3:2011-C06	BAKERY PRODUCTION	Carry out bakery production control activities	8	26	34	60
	CONTROL	Evaluate effectiveness of bakery production control activities	2	4	6	
		Prepare bakery production control activities report	2	4	6	

		Identify stock control Requirements	3	3	6	
		Plan stock control activities	4	6	10	
HT-013-3:2011-C07	BAKERY PRODUCTION	Carry out stock control activities	10	24	34	60
	STOCK CONTROL	Evaluate stock control activities	2	4	6	
		Prepare stock control report	2	2	4	
		TOTAL HOURS (Core Competencies)	305	577	882	882
		Identify bakery administrative function requirements	2	4	6	
	BAKERY ADMINISTRATIVE FUNCTIONS	Plan bakery administrative function activities	4	8	12	
HT-013-3:2011-E01		Carry out bakery administrative function activities	8	24	32	60
		Evaluate effectiveness of bakery administrative function activities	2	4	6	
		Prepare bakery administrative function activities report	2	2	4	
		Identify bakery product costing requirements	2	2	4	
		Plan bakery product costing activities	2	2	4	
HT-013-3:2011-E02	BAKERY PRODUCT COSTING	Carry out bakery product costing activities	4	20	24	36
		Evaluate accuracy of bakery product costing	1	1	2	
		Prepare bakery product costing activities report	1	1	2	
TOTAL HOURS (+ Elective Competency)			333	645	978	978