These are the list of specializations and their pre-requisites.

		Specialization	Number of Hours	Pre-requisite
1.		Animal Production (NC II)	480 hours	
2.		Aquaculture (NC II)	640 hours	
3.	S	Artificial Insemination (Ruminants) (NC II)	160 hours	Animal Production
4.	ARTS	Artificial Insemination (Swine) (NC II)	160 hours	Animal Production
5.		Crop Production (NC I)	320 hours	
6.	AGRI-FISHERY	Fish Wharf Operation (NC I)	160 hours	Fish or Shrimp Grow Out Operation
7.	ij	Food (Fish) Processing (NC II)	640 hours	
8.	SI:	Horticulture (NC II)	640 hours	
9.	<u> </u>	Landscape Installation and Maintenance (NC II)	320 hours	Crop Production
10.	8	Organic Agriculture (NC II)	320 hours	Crop Production
11.	Ă	Pest Management (NC II)	320 hours	Crop Production
12.	_	Rice Machinery Operation (NC II)	320 hours	Crop Production
13.		Slaughtering Operation (NC II)	160 hours	Animal Production
1.		Beauty/Nail Care (NC II)	160 hours	40 hours of the subject during exploratory Grade 7/8
2.		Attractions and Theme Parks (NC II)	160 hours	
3.		Bread and Pastry Production (NC II)	160 hours	
4.		Caregiving (NC II)	640 hours	40 hours of the subject during exploratory Grade 7/8
5.		Cookery (NC II)	320 hours	40 hours of the subject during exploratory Grade 7/8
6.	(0	Dressmaking (NC II)	320 hours	
7.	ŭ	Food and Beverage Services (NC II)	160 hours	
8.	ECONOMICS	Front Office Services (NC II)	160 hours	40 hours of the subject during exploratory Grade 7/8
9.	2	Hairdressing (NC II)	320 hours	
10.	8	Handicraft (Basketry, Macrame) (Non-NC)	160 hours	
11.	Ш	Handicraft (Fashion Accessories, Paper Craft) (Non-NC)	160 hours	
12.	НОМЕ	Handicraft (Needlecraft) (Non-NC)	160 hours	
13.	오	Handicraft (Woodcraft, Leathercraft) (Non-NC)	160 hours	
14.	-	Housekeeping (NC II)	160 hours	
15.	_	Local Guiding Services (NC II)	160 hours	
16.		Tailoring (NC II)	320 hours	40 hours of the subject during exploratory Grade 7/8
17.		Tourism Promotion Services (NC II)	160 hours	
18.		Travel Services (NC II)	160 hours	
19.		Wellness Massage (NC II)	160 hours	

		Specialization	Number of Hours	Pre-requisite
1.		Computer Hardware Servicing (NC II)	320 hours	
2.		Animation (NC II)	320 hours	
3.		Computer Programming (NC IV)	320 hours	
4.	IC	Contact Center Services (NC II)	320 hours	
5.		Illustration (NC II)	320 hours	
6.		Medical Transcription (NC II)	320 hours	
7.		Technical Drafting (NC II)	320 hours	
1.		Automotive Servicing (NC I)	640 hours	
2.	10	Carpentry (NC II)	640 hours	
3.	RTS	Consumer Electronics Servicing (NC II)	640 hours	
4.	¥	Domestic Refrigeration and Airconditioning Servicing (NC II)	640 hours	
5.	AL AL	Electrical Installation and Maintenance (NC II)	640 hours	
6.	Z.	Masonry (NC II)	320 hours	
7.	ST	Plumbing (NC I)	320 hours	
8.	2	Plumbing (NC II)	320 hours	Plumbing (NC I)
9.	INDUST	Shielded Metal Arc Welding (NC I)	320 hours	
10.	"	Shielded Metal Arc Welding (NC II)	320 hours	Shielded Metal Arc Welding (NC I)
11.		Tile Setting (NC II)	320 hours	

(160 hours)

#### **Course Description:**

This curriculum guide on Bread and Pastry Production course leads to **National Certificate Level II (NCII)**. This course is designed for high school student to develop knowledge, skills, and attitude to perform the tasks on Bread and Pastry Production. It covers core competencies namely: 1) prepare and produce bakery products; 2) prepare and produce pastry products; 3) prepare and present gateau, tortes and cakes; 4) prepare and display petit fours and 5) present deserts.

The preliminaries of this specialization course includes the following: 1) Explain core concepts in bread & pastry production; 2) Discuss the relevance of the course 3) Explore on opportunities for a Baker or Commis as a career.

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
<ol> <li>Introduction</li> <li>Basic concepts in bread and pastry production</li> <li>Relevance of the course</li> <li>Career opportunities</li> </ol>	The learners demonstrate an understanding of the core concepts and theories in bread and pastry production	The learners independently demonstrate core competencies in bread and pastry production as prescribed in the TESDA Training Regulation	<ol> <li>The learners:</li> <li>explain core concepts in bread and pastry production</li> <li>discuss the relevance of the course</li> <li>explore opportunities in bread and pastry production</li> </ol>	
Quarter 1 Lesson 1: PREPARE AND PR	ODUCE BAKERY PRODUCTS			
<ol> <li>Accurate measurement of ingredients</li> <li>Baking ingredients and its substitution</li> </ol>	The learners demonstrate an understanding of the core concepts and theories in	The learners independently demonstrate core competencies in preparing	LO 1. Prepare bakery products  1.1 Select, measure and weigh required ingredients according to	TLE_HEBP9- 12PB-Ia-f-1
3. Types, kinds, and classification of bakery products	bread and pastry production	and producing bakery products	recipe or production requirements 1.2 Prepare a variety of bakery products according to standard mixing procedures/ formulation/	
4. Mixing procedures/formulation/ recipes, and desired product characteristics of various bakery products			recipes and desired product characteristics  1.3 Use appropriate equipment according to required bakery products and standard operating	
5. Baking techniques, appropriate conditions and enterprise requirements and standards			procedures  1.4 Bake bakery products according to techniques and appropriate conditions	
<ul><li>6. Temperature ranges in bakery products</li><li>7. Suggested projects:</li></ul>			1.5 Select required oven temperature to bake goods in accordance with the desired characteristics,	

	HOME E	CONOMICS - BREAD AND PAS	SIKT PRODUCTION	
CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
7.1. Dinner roll			standards recipe specifications	
7.2. Pan de sal				
7.3. Cinnamon roll				
7.4. Ensaymada				
7.5. Pan de coco				
Quarter 2				
<b>LESSON 1: PREPARE AND</b>	<b>PRODUCE PASTRY PRODUCTS</b>	S (PP)		
1. Culinary and technical ter	ms The learner demonstrates	The learner demonstrate	LO 1. Prepare pastry products	TLE_HEBP9-
related to pastry products	understanding of the basic	competencies in preparing	1.1. Select, measure and weigh required	12PP-IIa-g-4
2. Ratio of ingredients	concept and underlying	and producing pastry products	ingredients according to recipe or	
required to produce a	theories in preparing and		production requirements and	
balance formula	producing pastry products		established standards and	
3. Correct proportion contro	l,   ·		procedures	
yields, weights and sizes			1.2. Prepare variety of pastry products	
for profitability			according to standard mixing	
4. Types, kinds, and			procedures/formulation/ recipes	
classification of pastry			and desired product characteristics	
products			1.3. Use appropriate equipment	
5. Mixing			according to required pastry	
procedures/formulation/re	e		products and standard operating	
cipes and desired product	:		procedures	
characteristics of various			1.4. Bake pastry products according to	
pastry products			techniques and appropriate	
6. Baking tools, equipment,			conditions; and enterprise	
and their uses and			requirement and standards	
functions			1.5. Select required oven temperature	
7. Baking techniques			to bake goods in accordance with	
appropriate conditions,			the desired characteristics,	
and enterprise			standards recipe specifications and	
requirements and			enterprise practices	
standards				
8. Temperature ranges in				
baking pastry products				
9. Occupational health and				
safety				
10. Suggested projects:				

	HOME ECONOMICS - BREAD AND PASTRY PRODUCTION			
CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
10.1 Pies				
- Pineapple pie				
- Buko pie				
- Egg pie				
10.2 Pizza				
10.3 Empanada				
10.4 Tart				
10.5 Etc.				
11. Types and classifications			LO 2. Decorate and present	TLE_HEBP9-
of fillings, coatings/icing			Pastry products	12PP-IIh-i-5
and glazes			2.1 Prepare a variety of fillings and	
12. Regular and special fillings			coating/icing, glazes and	
and coating/icing, glazes			decorations for pastry products	
and decorations			according to standard recipes,	
13. Decorative techniques			enterprise standards and/or	
and rules for garnishing	•		customer preferences	
14. The tools and materials in			2.2 Fill and decorate pastry products,	
decorating, finishing and			where required and appropriate, in	
presenting			accordance with standard recipes	
15. Standards and procedures			and/or enterprise standards and	
in decorating pastry			customer preferences	
products			2.3 Finish pastry products according to	
16. Occupational Health and			desired product characteristics	
Safety			2.4 Present baked pastry products	
17. Standards and procedures			according to established standards	
in finishing pastry			and procedures	
products				
18. Plating and presenting				
pastry products				
19. Shelf-life of pastry			LO 3. Store pastry products	TLE_HEBP9-
products			3.1 Store pastry products according to	12PP-IIj-6
20. Standards and procedures			established standards and	
in storing pastry products			procedures	
21. Different kinds of			3.2 Select packaging appropriate for	
packaging materials to be			the preservation of product	
used			freshness and eating	

				STRIFRODUCTION	
	CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
22.	. Standards and procedures			characteristics	
	in packaging pastry				
	product				
Q	uarter 3				
LĪ	ESSON 1: PREPARE AND P	RESENT GATEAUX, TORTES A	ND CAKES (TC)		
	Culinary terms related to	The learner demonstrates	The learner demonstrate	LO 1. Prepare sponge and cakes	TLE_HEBP9-
	sponge and cakes	understanding of the core	competencies in preparing	1.1 Select, measure and weigh	12TC-IIIa-f-7
2.	How to measure	concept and underlying	and presenting gateaux,	ingredients according to recipe	
	ingredients	theories in preparing and	tortes and cakes	requirements, enterprise practices	
3.	Correct proportion control,	presenting gateaux, tortes		and customer practices	
	yields, weights and sizes	and cakes		1.2 Select required oven temperature to	
	for profitability			bake goods in accordance with	
4.	Main ingredients used for			desired characteristics, standard	
	variety of sponge and			recipe specifications and enterprise	
	cakes			practices	
5.	Specific temperature used			1.3 Prepare sponges and cakes	
	for different types of			according to recipe specifications,	
	sponge and cakes			techniques and conditions and	
6.	Pre-heating the oven			desired product characteristics	
7.	Classification of the			1.4 Use appropriate equipment	
	different types of sponge			according to required pastry and	
	and cakes			bakery products and standard	
8.	Mixing methods used for			operating procedures	
	variety of sponge and			1.6 Cool sponges and cakes according	
	cakes			to established standards and	
9.	Required equipment and			procedures	
	materials for sponge and				
	cakes				
10.	. Recipe specifications,				
	techniques and conditions				
	and desired product				
	characteristics				
11.	. Cooling temperature of				
	sponge and cakes				
	Suggested projects:				
13.	. Batter cake with butter				

CONTENT		PERFORMANCE		2005
CONTENT	CONTENT STANDARD	STANDARD	LEARNING COMPETENCIES	CODE
icing 14. Sponge cake with butter cream filling and icing 15. Chiffon cake with boiled icing or fondant icing 16. Chocolate cake				
<ul><li>17. Identification of fillings appropriate in a specific cakes</li><li>18. Identification of the required consistency and</li></ul>			LO 2. Prepare and use fillings 2.1 Prepare and select fillings in accordance with required consistency and appropriate flavors 2.2 Fill and assemble slice or layer	TLE_HEBP9- 12TC-IIIg-8
appropriate flavor of fillings  19. Filling and assembling cakes according to the standard recipe specifications			sponges and cakes according to standard recipe specifications, enterprise practice and customer preferences  2.3 Select coatings and sidings according to the product	
20. Classification of coatings and sidings based on the required recipe specifications and product characteristics			characteristics and required recipe specification	
21. Identification of specific decorations appropriate for sponge and cakes 22. Identification of standard			3.1 Decorate sponges and cakes suited to the product and occasion and in	TLE_HEBP9- 12TC-IIIh-i-9
recipes of icings and decorations for sponge and cakes			accordance with standard recipes and enterprise practices 3.2 Use suitable icings and decorations according to standard recipes and/or	
23. Identification and application of steps and procedure in icing a cake.			enterprise standards and customer preferences	
24. Types of icing/frosting and their uses				
25. Presenting and plating sponge and cakes			LO 4. Present cakes 4.1. Present cakes in accordance with	TLE_HEBP9- 12TC-IIIj-10

CONTENT	CONTENT STANDARD	PERFORMANCE	LEARNING COMPETENCIES	CODE
26. Selection and usage of equipment in accordance with service requirements  27. Identification of the product freshness, appearance, characteristics of prepared cakes  28. Cutting portion-controlled to minimize the wastage of cake  29. Standard size and weight per serving  30. Standards and procedures of storing cake products  31. Factors to consider in storing cakes  32. Storage methods for cakes  33. Storage temperature for cakes		STANDARD	customer's expectations and 4.2. established standards and procedures 4.3. Select and use equipment in accordance with service requirements 4.4. Maintain product freshness, appearances and eating qualities in accordance with the established standards and procedures 4.5. Marked cakes or cut portion-controlled to minimize wastage and in accordance with enterprise specifications and customer preferences  LO 5. Store cakes 5.1. Store cakes in accordance with establishment's standards and procedures 5.2. Identify storage methods in accordance with product specifications and established standards and procedures	TLE_HEBP9- 12TC-IIIj-11
Quarter 4 LESSON 1: PREPARE AND D	   ISPLAY PETITS FOURS (PF)			
Characteristics of classical and contemporary petits fours	The learner demonstrates understanding of the basic concept and underlying	The learner demonstrate competencies in preparing and displaying petits fours	LO 1. Prepare iced petits fours 1.1 Prepare, cut and assemble sponges and bases according to standard	TLE_HEBP9- 12PF-IVa-b-12
<ol><li>Underlying principles in preparing petit fours</li></ol>	theories in preparing and displaying petits fours		recipes and enterprise requirements and practices	
3. Types and kinds of sponge and bases			1.2 Prepare fillings with the required flavors and consistency	
<ul><li>4. Different kinds of fillings</li><li>5. Procedure in making fondant icing</li></ul>			1.3 Prepare fondant icing following required temperature and standard procedure	

CONTENT		PERFORMANCE	LEADNING COMPETENCIES	50DF
CONTENT	CONTENT STANDARD	STANDARD	LEARNING COMPETENCIES	CODE
6. Decorations and designs			1.4 Design and use decorations in	
			accordance with establishment	
			standards and procedures	
7. Kinds of small choux paste			LO 2. Prepare fresh petits fours	TLE_HEBP9-
8. Types of sweet paste and			2.1 Bake and decorate a selection of	12PF-IVc-d-13
fillings			small choux paste shapes in	
9. Different garnishes, glazes			accordance with established	
and finishes			standards and procedures	
10. Standards and operating			2.2 Prepare and blend baked sweet	
procedures in preparing fresh petits fours			paste in accordance with establishment standards and	
fresii petits fours			procedures	
			2.3 Prepare and use fillings the required	
			flavors and correct consistency	
			2.4 Use garnishes, glazes and finished in	
			accordance with established	
			standards and procedures	
11. Flavor and shape			LO 3. Prepare marzipan petits fours	TLE_HEBP9-
specifications and			<ul> <li>Flavor and shape Quality marzipan</li> </ul>	12PF-IVe-f-14
enterprise standards of			to produce mini-sized fruits in	
quality marzipan			accordance with enterprise and	
12. Standards and operating			client requirements	
procedures in coating			<ul> <li>Coat Marzipan fruits to preserve</li> </ul>	
marzipan fruits			desired eating characteristics and	
			softened with egg whites, piped	
			into shapes and sealed/browned	
			with applied heat, according to	
12.0 15 11			enterprise practice	
13. Specifications of fresh			LO 4. Prepare caramelized petits	TLE_HEBP9-
fruits needed to caramelized			fours	12PF-IVg-h-15
14. Specifications of dried			4.1. Select and coat fresh fruits/fruit segments with pale amber-colored	
fruits needed.			caramel or glazed or any coating	
15. Kinds of sugar to			specified by the enterprise	
caramelized			4.2. Fill sandwich dried fruits or nuts	
Caramenzea			with flavored marzipan and coated	
			with havored marzipan and toated	

	HOPIL EX	ONOMICS - BREAD AND PA	JIKI FRODUCITON	
CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
			with pale amber-colored caramel according to specifications and enterprise standards	
<ul><li>16. Kinds and uses of receptacles for petits fours</li><li>17. Tips on how to display petit fours</li><li>18. Standards and procedures in displaying petits fours</li></ul>			LO 5. Display petits fours 5.1. Select and prepare appropriate receptacles for petits fours 5.2. Display petits fours creatively to enhance customer appeal	TLE_HEBP9- 12PF-IVi-16
<ul><li>19. Tips on storing petits fours</li><li>20. Temperature requirements in storing petits fours</li><li>21. Standards and procedures in storing and packaging petits fours</li></ul>			LO 6. Store petits fours 6.1 Store petits fours in proper temperatures and conditions to maintain maximum eating qualities, appearance and freshness 6.2 Package petits fours in accordance with established standards and procedures	TLE_HEBP9- 12PF-IVi-17
Quarter 4 LESSON 2: PRESENT DESSE	RTS (PD)			
Varieties and characteristics of specialized cakes, both classical and contemporary and other types of desserts     Commodity knowledge, including quality indicators of specialized cakes and	The learner demonstrates understanding of the basic concept and underlying theories in presenting desserts	The learner demonstrate competencies in presenting desserts	LO 1. Present and serve plated desserts  1.1. Portion and present desserts according to product items, occasion and enterprise standards and procedures  1.2. Plate and decorate desserts in accordance with enterprise standards and procedures	TLE_HEBP9- 12PD-IVj-18
other types of desserts 3. Culinary terms related to specialized cakes and other types of desserts 4. Portion control and yield			·	

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
<ul> <li>5. Standard recipe specifications of specialized cakes and other types of desserts</li> <li>6. Standard Operating Procedures in preparing other types of desserts</li> </ul>				
<ul><li>7. Planning, preparing and presenting trolley services</li><li>8. Arranging and preparing variety of desserts</li></ul>			LO 2. Plan, prepare and present dessert buffet selection or plating 2.1 Plan and utilize dessert buffet services_according to available facilities, equipment and customer/enterprise requirements 2.2 Prepare and arrange variety of desserts in accordance with enterprise standards and procedures	TLE_HEBP9- 12PD-IVj-19
9. Temperature range in storing desserts  10. Packaging design techniques  11. Standards and procedures in storing and packaging desserts			LO 3. Store and package desserts 3.1 Store desserts in accordance with the required temperature and customer's specifications. 3.2 Package desserts in accordance with established standards and procedures	TLE_HEBP9- 12PD-IVj-20

#### **GLOSSARY**

Appropriate	Suitable or proper under the givencircumstances.			
Assembling	Fitting together the component parts of a certain dish or food.			
Boiled icing	A sugar and egg white icing for cakes. Sugar is first cooked on the stovetop to form syrup, and then the hot syrup is beaten i			
	whipped egg whites. As the mixture is beaten it becomes smooth, fluffy, and glossy.			
Choux pastry or pâte à choux	A light pastry dough for making profiteroles, croquembouches, éclairs, French crullers, beignets, St. Honoré			
	Indonesian <i>kue sus</i> , and <i>gougères</i> .			
Commis	A junior chef.			
Consistency	(1) The way in which a certain substance, typically liquid, holds together; (2) thickness or viscosity.			
Culinary	Of or relating to a kitchen or to cookery.			
Characteristic	A feature or quality belonging to a person, place, or thing and which serves to identify it			
Condition	The state of something, especially with regard to its appearance, quality, or working order.			
Filling, coating, topping	A quantity of material that fills or is used to fill something, or is used to coat, or is used to design the top of food.			
Fondant/ Fondant Icing  A thick paste that is made of sugar and water and is often flavored and/or colored; it is used for making cand				
	decorating.			
	<ul> <li>Fondant is one of several kinds of icing-like substances used to decorate or sculpt pastries. The word, in French,</li> </ul>			
	means "melting", coming from the same root as "foundry" in English. A foundry is a workshop or factory for casting			
	metal.			
Glaze	An overlay or cover (food, fabric, etc.) with a smooth and shiny coating or finish.			
Gateau, torte	A rich cake, typically one containing layers of cream or fruit.			
Garnishing	To decorate or embellish something, especially food.			
Product	An article or substance that is manufactured or refined for sale.			
Product characteristic	An element that defines a product's character, such as size, shape, weight, etcetera.			
Petit four A small confectionery or savoury appetizer means "small oven" in French.				
Proportion control Control in which the amount of corrective action is proportional to the amount of error				
Shelf-life The length of time for which an item remains usable, fit for consumption, or saleable.				
Siding	Food on the side of a main dish; often eaten before eating the main dish.			
Sweet paste	A sweet doughy candy or confection.			

#### **Code Book Legend**

LEGEN	D	SAMPLE		
First Enter	Learning Area and Strand/ Subject or Specialization	Technology and Livelihood Education_Home Economics Bread and Pastry Production		
First Entry	Grade Level	Grade 9/10/11/12		
Uppercase Letter/s	Domain/Content/ Component/ Topic Present Desserts		PD	
			-	
Roman Numeral *Zero if no specific quarter	Quarter	First Quarter	IV	
Lowercase Letter/s *Put a hyphen (-) in between letters to indicate more than a specific week	Week	Week One	j	
			-	
Arabic Number	Competency Store and Package Desserts		20	

DOMAIN/ COMPONENT	CODE	
Prepare And Produce Bakery Products	РВ	
Prepare And Produce Pastry Products	PP	
Prepare And Present Gateaux, Tortes And Cakes	TC	
Prepare And Display Petits Fours	PF	
Present Desserts	PD	

Technology-Livelihood Education and Technical-Vocational Track specializations may be taken between Grades 9 to 12.

Schools may offer specializations from the four strands as long as the minimum number of hours for each specialization is met.

Please refer to the sample Curriculum Map on the next page for the number of semesters per Home Economics specialization and those that have pre-requisites. Curriculum Maps may be modified according to specializations offered by a school.

### JUNIOR HIGH SCHOOL TECHNICAL LIVELIHOOD EDUCATION AND SENIOR HIGH SCHOOL - TECHNICAL-VOCATIONAL-LIVELIHOOD TRACK HOME ECONOMICS – BREAD AND PASTRY PRODUCTION

#### **SAMPLE HOME ECONOMICS CURRICULUM MAP**

No.	Grade 7/8	Grade 9	Grade 10	Grade 11	Grade 12
2		*Beauty/Nail Care (NC II)	Wellness Massage (NC II)	Hairdressi	ing (NC II)
3		2 sems	2 sems		4 sems
4			*Caregivi	ing (NC II)	8 sems
5 6	]	*Dressmak	ing (NC II) 4 sems	Tailorin	g (NC II) 4 sems
7 8 9		*Front Office Services (NC II)	Travel Services (NC II)	Local Guiding Services (NC II)	: Tourism Promotion Services (NC II)
10		2 sems	2 sems	2 sems	2 sems
11 12 13	EXPLORATORY	*Cookei	y (NC II) 4 sems	Bread and Pastry Production (NC II) 2 sems	Food and Beverage Services (NC II) 2 sems
14 15 16		Housekeeping (NC II) 2 sems	Attractions and Theme Parks (NC II) 2 sems		
17 18		Handicraft (Non-NC)	Handicraft (Non-NC) Fashion	Handicraft (Non-NC)	Handicraft (Non- NC) Woodcraft,
19 20	4 sems	Needlecraft  2 sems	Accessories, Paper Craft 2 sems	Basketry, Macrame  2 sems	Leathercraft  2 sems

<sup>\*</sup> Students cannot take a specialization if they have not taken 40 hours of the subject in Grades 7 or 8