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# Most Essential Learning Competencies (MELCs)



**GRADE LEVEL: Grade 7/8**  
**SUBJECT: CAREGIVING**  
**NOMINAL HOURS: 40 HOURS**  
**COMPONENT: HOME ECONOMICS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates understanding on the use of tools, equipment and paraphernalia in caregiving.	The learner independently uses tools, equipment and paraphernalia in caregiving	<b>LO 1. Identify caregiving tools, equipment, and paraphernalia applicable to a specific job</b> 1.1 Classify equipment, tools, and paraphernalia according to types, and functions	1 WEEK	<b>TLE_HEUTC7/8-0a-b-1</b>
			<b>LO 2. Use caregiving tools, equipment, and paraphernalia</b> 2.1 Use equipment, tools and paraphernalia based on the task requirement	1 WEEK	<b>TLE_HECGUT7/8-0c-d-2</b>
	The learner demonstrates understanding in maintaining tools, equipment and paraphernalia in caregiving.	The learner independently maintains tools, equipment and paraphernalia in caregiving.	<b>LO 1. Perform aftercare activities for tools, equipment and paraphernalia</b> 1.1 Clean tools, equipment and paraphernalia after use 1.2 Store tools, equipment and paraphernalia in the appropriate area 1.3 Check tools, equipment and paraphernalia regularly for orderliness/tidiness 1.4 Carry out routine maintenance as per Standard Operating Procedures (SOP)	2 WEEKS	<b>TLE_HECGMT7/8-0e-f-3</b>
	The learner demonstrates understanding on the practice of occupational health and safety procedures in caregiving.	The learner independently practices occupational health and safety procedures in caregiving.	<b>LO 1. Identify hazards and risks</b> 1.1 Identify hazards and risks 1.2 Determine hazard and risks indicators in the workplace 1.3 Determine the effects of hazards	1 WEEK	<b>TLE_HECGOS7/8-0h-5</b>

			<b>LO 2. Evaluate and control hazards and risks</b> 1.1 Follow Occupational Health and Safety (OHS) procedures in dealing with and for controlling hazards and risks 1.2 Establish organizational protocol in providing appropriate assistance in workplace emergencies	1 WEEK	<b>TLE_HECGOS7/8-0i-j-6</b>

**GRADE LEVEL: Grade 7/8**

**SUBJECT: DRESSMAKING**

**NOMINAL HOURS: 40 HOURS**

**COMPONENT: HOME ECONOMICS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates understanding in the use of sewing tools in dressmaking	The learner independently uses tools in dressmaking/tailoring	<b>LO 1. Identify sewing tools and equipment and their uses</b> 2.1 Identify sewing tools and equipment 2.2 Classify sewing machines 2.3 Select appropriate measuring tools	2 WEEKS	<b>TLE_HEDM7/8UT-0a-b-1</b>
	The learner demonstrates understanding in carrying out measurements in dressmaking/tailoring.	The learner independently carries out measurements and calculations based on job requirements.	<b>LO 1. Obtain measurements</b> 2.4 Take accurate body measurements 2.5 Read and record required measurements 2.5 Apply the systems of measurements 2.6 Perform simple calculations based on the job requirement 2.7 Demonstrates accurate reading measurements 2.8 Assess the appropriateness of design based on the client's features 2.9 Read specifications 2.10 Apply the principles of design and color harmonies	3 WEEKS	<b>TLE_HEDM7/8MT-0c-d-2</b>

	The learner demonstrates understanding in performing basic maintenance of sewing machine in dressmaking/tailoring.	The learner consistently performs basic maintenance of sewing machine in dressmaking/tailoring.	<b>LO 2. Clean and lubricate machine</b>  1.1. Observe proper handling and cleaning of the machine 1.2 Resolve common machine troubles 2.1 Follow the safety procedures in machine cleaning 2.2 Perform regular maintenance schedules	1 WEEK	<b>TLE_HEDM7/8BM-0i-7</b>
	The learner demonstrates understanding in practicing occupational safety and health in dressmaking/tailoring.	The learner consistently practices occupational safety and health in dressmaking/tailoring.	<b>LO 1. Identify and evaluate hazards and risks</b>  1.1. Explain workplace hazards and risks 1.2. Identify hazards and risks in the workplace 1.3. Explain the causes of hazards and risks	1 WEEK	<b>TLE_HEDM7/8BM-0j-8</b>

**GRADE LEVEL: Grade 7/8**

**SUBJECT: COOKERY**

**NOMINAL HOURS: 40 HOURS**

**COMPONENT: HOME ECONOMICS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learners demonstrate an understanding the use and maintenance of equipment in cookery	The learners independently use and maintain tools, equipment, and materials in cookery according to standard operating procedures	<b>LO 1. Utilize appropriate kitchen tools, equipment, and paraphernalia</b> 1.1 identify types of tools, equipment, and paraphernalia 1.2 classify the types of appropriate cleaning tools and equipment based on their uses	2 WEEKS	<b>TLE_HECK7/8UT-0a-1</b>
			<b>LO 2. Maintain appropriate kitchen tools, equipment, and paraphernalia</b>	1 WEEK	<b>TLE_HECK7/8MT-0b-2</b>

			1.1 select various types of chemicals for cleaning and sanitizing kitchen tools, equipment, and paraphernalia 1.2 clean and sanitize kitchen tools and equipment following manufacturer's instructions use cleaning tools, equipment, and paraphernalia in accordance to standard operating procedures maintain kitchen tools, equipment, and work areas		
	The learners demonstrate an understanding performing mensuration and calculation in cookery	The learners independently measure and calculate ingredients in cookery	<b>LO 1. Carry out measurements and calculations in a required task</b> 1.1 give the abbreviations and equivalents of measurements 1.2 measure ingredients according to recipe requirement 1.3 convert systems of measurement according to recipe requirement 1.4 perform substitution of ingredients	3 WEEKS	<b>TLE_HECK7/8PM-0d-4</b>
			<b>LO 2. Calculate cost of production</b> 2.1 discuss principles of costing 2.2 compute cost of production	1 WEEK	<b>TLE_HECK7/8PM-0e-5</b>
	The learners demonstrate an understanding the practice of occupational health and safety	The learners independently practice occupational health and safety	<b>LO 1. Importance of Occupational Health and Safety Procedures</b> 1.1 recognize the importance of OSH	1 WEEK	<b>TLE_HECK7/8OHSP-0h-8</b>

**GRADE LEVEL:** Grade 7/8  
**SUBJECT:** NAIL CARE  
**NOMINAL HOURS:** 40 HOURS  
**COMPONENT:** HOME ECONOMICS

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates understanding of the use of tools and equipment in Nail Care Services.	The learner independently uses nail care tools and equipment in Nail Care Servicing	<b>LO 1. Prepare the necessary tools and equipment for the specific nail care activity</b> 1.1 Identify the uses of tools and equipment in nail care according to task requirements 1.2 Use tools and equipment according to task requirement 1.3 Observe safety procedure of using tools and equipment	1 WEEK	TLE_HEBC7/8UT-0a-b-1
	The learner demonstrates understanding in maintaining tools and equipment in Nail Care	The learner independently maintains tools and equipment in Nail Care Servicing	<b>LO 2. Perform basic preventive and corrective maintenance</b> 1.1 Clean tools according to standard procedures 1.2 Inspected defective tools and equipment	2 WEEKS	TLE_HEBC7/8MT-0d-e-3
	The learner demonstrates understanding in nail shapes in Nail Care Services	The learner independently practice nail shapes in Nail Care Services	<b>LO 1. Identify nail structure and shapes</b> 1.1 Identify nail structure and shapes 1.2 Perform nail trimmings to varied shapes	4 WEEKS	TLE_HEBC7/8MT-0j-6

**GRADE LEVEL: Grade 7/8**  
**SUBJECT: HANDICRAFT MAKING**  
**NOMINAL HOURS: 40 HOURS**  
**COMPONENT: HOME ECONOMICS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates understanding on the principles and concepts of embroidery	The learner uses basic tools in embroider and create embroidered article	<b>L.O. 1: Use basic tools in embroidery</b> 1.1 Basic tools and materials in embroidery are identified. 1.2 Different embroidery stitches are performed based on the given steps. 1.3 Proper use of tools is observed	2 WEEKS	<b>TLE_HEHD7/8EA-0a-b-1</b>
			<b>LO2. Create embroidered article</b> 2.1 Embroidered article is created based on the principles and elements of design. 2.2 Color scheme are applied increasing the design. 2.3 Design is transferred following the given steps. 2.4 Good working habits are observed	2 WEEKS	<b>TLE_HEHD7/8EA-0c-d-2</b>
	The learner demonstrates understanding on the principles and concepts of recycling	The learner understands and create recycled project	<b>LO 1. Understand Recycling</b> 1. Recycled articles are identified based on recyclable materials	1 WEEK	<b>TLE_HEHD7/8RP-0e-f-2</b>
			<b>LO2. Create Recycled project</b> 2.1 Recycled articles are produced artistically based on the given steps. 2.2 Tools are properly used. 2.3 Good working habits are observed.		<b>TLE_HEHD7/8RP-0e-g-3</b>
	The learner demonstrates understanding on the principles	The learner understand wrapping of gift items	<b>LO1. Wrap Gift Items</b> 1. Tools are properly used. 2. Principles and elements of design are applied.	2 WEEKS	<b>TLE_HEHD7/8WG-0h-i-2</b>



	and concepts of gift wrapping				
			3. Gift items are wrapped artistically. 4. Decorative articles are applied to enhanced wrapped gift items. 5. Good working habits are observed		

**GRADE LEVEL:** Grade 7/8  
**SUBJECT:** FRONT OFFICE SERVICES  
**NOMINAL HOURS:** 40 HOURS  
**COMPONENT:** HOME ECONOMICS

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates understanding on the use of tools, equipment, and paraphernalia in FOS	The learner independently use tools, equipment, and paraphernalia in FOS	<b>USE TOOLS, EQUIPMENT, AND PARAPHERNALIA</b> <b>LO 1. Identify FOS tools, equipment, and paraphernalia applicable to a specific job</b> 1.1. classify equipment, tools, and paraphernalia according to types and functions 1.2. describe equipment, tools, and paraphernalia based on the specified task	1 WEEK	TLE_HEFS7/8UT-0ab-2
			<b>LO 2. Use FOS tools, equipment, and paraphernalia</b> 1.1. use equipment, tools, and paraphernalia based on the task requirements	1 WEEK	TLE_HEFS7/8UT-0ab-2
			<b>MAINTAIN TOOLS, EQUIPMENT, AND PARAPHERNALIA</b> <b>LO 1. Perform after-care activities for tools, equipment, and paraphernalia</b> 1.1. clean tools, equipment, and paraphernalia after use according to standard operating procedures	1 WEEK	TLE_HEFS7/8UT-0c-4

			1.2. store tools, equipment, and paraphernalia in appropriate area in accordance with safety procedures		
	The learner demonstrates performing calculations in FOS	The learner independently perform calculations in FOS	<b>PERFORM MENSURATION AND CALCULATIONS</b> <b>LO 1. Perform simple calculations</b> 1.1. prepare simple report from arrival to departure of customers	1 WEEKS	<b>TLE_HEFS7/8MC-0e-6</b>
	The learner demonstrates the practice of occupational health and safety procedures in FOS	The learner independently practice occupational health and safety procedures in FOS in accordance with standards	<b>PRACTICE OCCUPATIONAL HEALTH AND SAFETY</b> <b>LO 1: Identify hazards and risks</b> 1.1. clarify and explain regulations and workplace safety and hazard control practices and procedures 1.2. identify hazards/risks in the workplace and their corresponding indicators	1 WEEK	<b>TLE_HEFS7/8OHS-0g-8</b>
			<b>LO 2: Evaluate and control hazards and risks</b> 1.1. determine effects of hazards 1.2. follow OHS procedures for controlling hazards/risks in the workplace	1 Week	<b>TLE_HEFS7/8OHS-0h-9</b>
	The learner demonstrates how to interpret layout areas of front-office reception	The learner independently interpret layouts areas of front-office reception	<b>INTERPRET DESIGN AND LAYOUT</b> <b>LO 1. Read and interpret front-office reception area</b> 1.1. read and interpret symbols and layout in a given sample plan for a front- office reception area 1.2. describe parts and functions of a front-office reception layout 1.3. evaluate a sample front office reception layout	1 WEEK	<b>TLE_HEFS7/8ID-0j-12</b>

**GRADE LEVEL: 7/8**  
**SUBJECT: FOOD PROCESSING**  
**NOMINAL HOURS: 40 HOURS**  
**COMPONENT: AGRI-FISHERY ARTS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates understanding of uses and maintenance of food (fish) processing tools, equipment, instruments and utensils in food (fish) processing.	The learner uses and maintain appropriate food (fish) processing tools, equipment, instruments and utensils and reports accordingly upon discovery of defect/s.	<b>LO 1. Select tools, equipment, utensils and instruments</b> 1.1. Select tools, equipment, utensils and instruments according to food (fish) processing method 1.2. Explain the defects in tools, equipment, utensils and instrument 1.3. Follow procedures in reporting defective tools, equipment, utensils and instruments	2 WEEKS	<b>TLE_AFFP9-12UT-0a-1</b>
			<b>LO 2. Use tools, equipment instruments and utensils by following the standard procedures</b> 2.1. Interpret a food processing procedure 2.2. Apply standard procedures in using tools, equipment, instruments, and utensils 2.3. Calibrate tools, equipment instruments and utensils 2.4. Follow procedures in sanitizing tools, equipment, instruments and utensils 2.5. Use tools, equipment, instruments, and utensils according to job requirements and manufacture's specification		<b>TLE_AFFP9-12 UT-0b-2</b>

	The learner demonstrates understanding of basic measurements and calculation.	The learner performs basic measurements and calculation that relate with weight and measurements.	<b>LO 1. Tabulate the recorded data relevant to production of processed food</b> <ol style="list-style-type: none"> <li>1.1. Record weights and measurements of raw materials and ingredients</li> <li>1.2. Summarize/sum up recorded weights and measurements of processed products</li> <li>1.3. Perform how a seam is measured</li> </ol>	2 WEEKS	<b>TLE_AFFP9-12MC-0d-1</b>
	The learner demonstrates understanding of basic mathematical skills that relate with spoilage, rejects and the percentage of recovery of yields.	The learner exhibits basic mathematical skills that relate with computation of percentage of spoilage, rejects and recovery of yields.	<b>LO 3. Calculate the production inputs and output</b> <ol style="list-style-type: none"> <li>3.1. Compute for the percentage equivalents of actual spoilage and rejects</li> <li>3.2. Calculate the percentage of actual yields and recoveries according to enterprise requirements</li> <li>3.3. Record calculated data according to enterprise requirements</li> </ol>	1 WEEK	<b>TLE_AFFP9-12MC-0e-3</b>
	The learner demonstrates understanding of interpreting plans and drawings that relate with basic fish processing activities.	The learner interprets plans and drawings that relate with basic fish processing activities.	<b>LO 1. Interpret a layout plan</b> <ol style="list-style-type: none"> <li>1.1. Explain the meanings of signs and symbol used in lay outing plan for fish processing activity</li> <li>1.2. Interpret layout plan for fish processing area according to standard set</li> </ol>	1 WEEK	<b>TLE_AFFP9-12ID-0f-1</b>
	The learner demonstrates understanding of basic principles and rules to be observed to ensure food safety and sanitation when he/she packages fish products.	The learner observes basic principles and rules to be observed to ensure food safety and sanitation when he/she packages fish products.	<b>LO 1. Observe personal hygiene and good grooming</b> <ol style="list-style-type: none"> <li>1.1. Explain the importance of good grooming in a workplace</li> </ol>	1 WEEK	<b>TLE_AFFP9-12OS-0g-1</b>

			1.2. Follow the procedures in cleaning, checking and sanitizing personal protective equipment		
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**GRADE LEVEL: Grade 7/8**

**SUBJECT: FOOD PROCESSING (SALTING/CURING/SMOKING)**

**NOMINAL HOURS: 40 HOURS**

**COMPONENT: AGRI-FISHERY-ARTS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates understanding on processing food by salting, curing and smoking.	The learner demonstrates independently the procedures of processing food by salting, curing and smoking.	<b>LO 1. Prepare equipment, tools, materials and utensils</b> 1.1. Prepare Equipment and tools for salting, curing and smoking in accordance with manufacturer's specifications 1.2. Check, sanitize and calibrate Equipment for the above food processing methods in accordance with manufacturer's specifications	1 WEEK	<b>TLE_AFFP9-12SL-la-c-1</b>
			<b>LO 2. Prepare the raw materials</b> 2.1. Sort and grade raw materials are in accordance with specifications 2.2. Prepare eggs for salting in accordance with approved standard procedures 2.3. Prepare poultry for curing in accordance with approved specifications and standard procedures	1 WEEK	<b>TLE_AFFP9-12SL-ld-f-2</b>
			<b>LO 3. Prepare salting and curing solutions and mixtures</b> 3.1. Measure and weigh required ingredients for pumping pickle, cover	4 WEEKS	<b>TLE_AFFP9-12SL-lh-i-3</b>

			pickle and dry cure mixture in line with approved specifications		
			<b>LO 4. Cure the materials</b> 4.1. Cure mixture at room temperature or refrigerated temperature at appropriate number of days 4.2. Submerged materials being cured in solution to obtain even distribution/penetration of cure mixture in line with approved specifications		<b>TLE_AFFP9-12SL-IIa-b</b>
			<b>LO 5. Finish the cured materials</b> 5.1. Wash and drain cured food materials from the solution, in accordance with standard operating procedures 5.2. Boil and dip in grana solution salted eggs according to approved specifications 5.3. Transfer the cooked products to containers and cool according to specifications.	1 WEEK	<b>TLE_AFFP9-12SL-IIc-e</b>

**GRADE LEVEL: Grade 7/8**

**SUBJECT: FOOD PROCESSING (FERMENTATION/PICKLING)**

**NOMINAL HOURS: 40 HOURS**

**COMPONENT: AGRI-FISHERY ARTS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates understanding food processing by fermentation and pickling.	The learner independently demonstrates procedures of fermentation and pickling.	<b>LO 1. Prepare equipment, tools and utensils</b> 1.1. Select <b>equipment, tools and utensils</b> for fermentation and pickling are according to requirements	1 WEEK	<b>TLE_AFFP9-12FR-IIh-i</b>

			1.2. Check and calibrate equipment, tools and utensils in accordance with manufacturer's specifications 1.3. Prepare and sanitize equipment/ utensils for the above <b>food processing methods</b> are according to manufacturer's specifications		
			<b>LO 2. Prepare raw materials</b> 2.1. Sort and grade raw materials according to approved criteria and enterprise requirements 2.2. Prepare the sorted and graded fresh fruits and vegetables according to required sizes and shapes 2.3. Prepare fish and other marine products according to specifications	1 WEEK	<b>TLE_AFFP9-12FR-IIj-II</b>
			<b>LO 3. Perform alcoholic fermentation of fruits and vegetables</b> 3.1. Mix prepared fruit with water according to specifications 3.2. Boil mixture in accordance with specifications and enterprise requirements 3.3. Extract juice in accordance with specifications and enterprise requirements 3.4. Cool and mix extracted juice with other ingredients like sugar and yeast in accordance with specifications 3.5. Ferment juice for 1-2 weeks as required 3.6. Filter and heat fermented juice according to specifications	3 WEEKS	<b>TLE_AFFP9-12FR-IIIb-d-3</b>

			<b>LO 4. Perform acetic acid/ lactic acid fermentation/ pickling of vegetables</b> 4.1. Mix alcoholic liquid with mother vinegar according to specifications 4.2. Ferment mixture for 2-4 weeks according to standard procedures 4.3. Filter mixture and clarify filtrate according to specifications 4.4. Heat acetous liquid according to specifications	1 WEEK	<b>TLE_AFFP9-12FR-IIIe-g-4</b>
			<b>LO 5. Ferment fish and other marine products</b> 5.1. Mix fish and other marine with required salt according to mixing requirements 5.2. Ferment the mixture of fresh and other marine products for 1-2 weeks in fermentation vats/vessels according to standard procedures 5.3. Heat fish paste/fish sauce according to standard procedures	1 WEEK	<b>TLE_AFFP9-12FR-IIIh-i-5</b>

**GRADE LEVEL: Grade 7/8**

**SUBJECT: FOOD PROCESSING (SUGAR CONCENTRATION)**

**NOMINAL HOURS: 40 HOURS**

**COMPONENT: AGRI-FISHERY ARTS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates understanding on food processing by sugar concentration.	The learner demonstrates independently the method of food processing by sugar concentration.	<b>LO 1. Prepare Equipment, Tools and Utensils</b> 1.1. Prepare equipment, tools and utensils for preserving foods by sugar concentration in accordance with manufacturer's manual 1.2. Calibrate equipment, tools and	1 week	<b>TLE_AFFP9-12SC-IVa-b-1</b>



			utensils in accordance with manufacturer's specifications 1.3. Sanitize equipment, tools and utensils for preserving foods by sugar concentration		
			<b>LO 2. Prepare the raw materials</b> 2.1. Check availability of <i>raw materials</i> according to required <i>food processing methods</i> 2.2. Clean and wash raw materials 2.3. Peel, slice, chop and cut of raw materials according to required sizes and shapes 2.4. Extract juice of the prepared fruits and vegetables through boiling for jelly and marmalade making	1 week	TLE_AFFP9-12SC-IVc-d-2
			<b>LO 3. Prepare acid, pectin and sugar mixture</b> 3.1. Measure required amounts of pectin, sugar and citric acid according to approved specifications 3.2. Mix measured pectin, acid and sugar with chopped fruit pulp/juice extract/pieces of fruits according to approved specifications	3 WEEKS  2 weeks	TLE_AFFP9-12SC-IVe-f-3
			<b>LO 4. Cook sugar concentrates</b> 4.1. Cook mixture to required consistency 4.2. Check the desired endpoint as specified		TLE_AFFP9-12SC-IVg-i-4

**GRADE LEVEL:** Grade 7/8  
**SUBJECT:** MASONRY  
**NOMINAL HOURS:** 40 HOURS  
**COMPONENT:** INDUSTRIAL ARTS

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates an understanding of concepts in the preparation of materials and tools using the different forms in masonry.	The learner independently prepares appropriate masonry materials and tools using the different forms in tile setting based on industry standards.	<b>LO 1. Prepare masonry materials and tools for the task</b> 1.1 Prepare a list of masonry tools and materials for a specific job	1 WEEK	TLE_IAMS7/8UT-0a-1
			<b>LO 2. Request appropriate masonry supplies materials and tools applicable to a specific job</b> 2.1 Use the appropriate form in requesting for masonry tools, supplies and materials for a specific job		TLE_IAMS7/8UT-0b-2
	The learner demonstrates an understanding of the concepts and underlying principles in interpreting simple technical drawings and plans in tile setting.	The learner independently reads and interprets specifications of simple technical drawings and plans.	<b>LO 1. Analyze signs, masonry symbols and data</b> 1.1 Read and interpret masonry signs, symbols and data	1 WEEK	TLE_IAMS7/8ID-0c-1
			<b>LO 2. Interpret technical drawings and plans</b>		TLE_IAMS7/8ID-0d-2

			2.1 Read blueprints of masonry plans, diagrams and circuits 2.2 Identify necessary tools, materials and equipment according to blueprints of masonry plans, diagrams and circuits		
	The learner demonstrates an understanding of the concepts and underlying principles in performing measurements and calculations.	The learner independently performs accurate measurements and calculation based on given tasks.	<b>LO 1. Select masonry measuring tools and instruments</b> 1.1 Choose measuring tools to be used for specific tasks	1 WEEK	<b>TLE_IAMS7/8MC-0e-1</b>
			<b>LO 2. Carry out measurements and calculations</b> 2.1 Use appropriate measuring devices for specific tasks 2.2 Convert data to its equivalent measure	1 WEEK	<b>TLE_IAMS7/8MC-0f-2</b>
			<b>LO 2. Perform basic maintenance</b> 1.1 Perform cleaning and lubricating of tools 1.1.1 Sharpening 1.1.2 Oiling	2 weeks	<b>TLE_IAMS7/8MT-0g-2</b>

			1.1.3 Insulating		
			<b>LO 3. Store tools and equipment</b> 3.1. Prepare inventory of tools and equipment 3.2. Store tools and equipment in their proper places 3.3.	1 WEEK	<b>TLE_IAMS7/8MT-0h-3</b>
	The learner demonstrates an understanding of the concepts and underlying principles of occupational health and safety procedures.	The learner independently simulates occupational health and safety procedures.	<b>LO 1. Identify hazards and risks</b> 1.1 List down hazards and risks in the workplace		<b>TLE_IAMS7/8OS-0i-1</b>

**GRADE LEVEL: Grade 7/8**

**SUBJECT: CARPENTRY**

**NOMINAL HOURS: 40 HOURS**

**COMPONENT: INDUSTRIAL ARTS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates an understanding of the underlying principles in the preparation of carpentry tools and construction materials.	The learner independently prepares carpentry tools and construction materials based on industry standards.	<b>LO 1. Identify materials and tools for a task</b> 1.1 Describe tools and materials used in carpentry 1.2 Prepare tools and materials for a task	1 WEEK	<b>TLE_IACP7/8UT-0a-1</b>
			<b>LO 2. Request appropriate materials and tools</b>		<b>TLE_IACP7/8UT-0b-2</b>

			2.1. Fill out forms in requesting for carpentry tools and materials as required for a task		
	The learner demonstrates an understanding of the underlying principles in the maintenance of carpentry tools and equipment.	The learner independently performs maintenance of carpentry tools and equipment based on industry standards.	<b>LO 1. Check condition of tools and equipment</b> 1.1 Segregate defective tool from functional ones 1.2 Label defective tool 1.3 Report the list of defective tools	2 WEEKS	<b>TLE_IACP7/8MT-0c-1</b>
			<b>LO 2. Perform basic preventive maintenance</b> 2.1 Repair defective tools 2.2 Conduct preventive maintenance of carpentry tools		<b>TLE_IACP7/8MT-0c-2</b>
	The learner demonstrates an understanding of the concepts and underlying principles in performing measurements and calculations.	The learner independently performs accurate measurements and calculation based on a given task.	<b>LO 1. Select measuring instruments</b> 1.1 Identify linear measuring instrument appropriate for a given task	1 WEEK	<b>TLE_IACP7/8MC-0d-1</b>
			<b>LO 2. Carry out measurements and calculations</b> 2.1. Measure given materials 2.2. Calculate amount of materials for a specific task		<b>TLE_IACP7/8MC-0d-e-2</b>
	The learner demonstrates an understanding of the	The learner independently reads and interprets simple technical drawing	<b>LO 1. Analyze signs, symbols and data</b>	1 WEEK	<b>TLE_IACP7/8ID-0f-1</b>

	concepts in interpreting technical drawing signs and symbols in carpentry.	signs and symbols based on standard specifications.	1.1 Explain the importance of signs, symbols and data in interpreting a work plan 1.2 Determine appropriate signs and symbols needed in the plan		
			<b>LO 2. Interpret technical drawings and plans</b> 2.1 Read working plan 2.2 Interpret working plan	1 WEEK	<b>TLE_IACP7/8ID-0f-2</b>
			<b>LO 3. Apply freehand sketching</b> 3.1 Perform freehand sketching exercises 3.2 Draw simple carpentry plans based on given tasks		<b>TLE_IACP7/8ID-0g-h-3</b>
	The learner demonstrates an understanding of the concepts of occupational health and safety procedures.	The learner independently prepares an occupational health and safety checklist being applied in carpentry.	<b>LO 1. Identify hazards and risks</b> 1.1 List down the different health hazards and risks found in the workplace 1.2 Discuss the effects of health hazards and occupational risks	1 WEEK	<b>TLE_IACP7/8ID-0i-1</b>

**GRADE LEVEL:** Grade 7/8  
**SUBJECT:** SMAW  
**NOMINAL HOURS:** 40 HOURS  
**COMPONENT:** INDUSTRIAL ARTS

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates an understanding of the preparation of SMAW materials and tools.	The learner independently prepares appropriate SMAW materials and tools based on industry standards.	<b>LO 1. Identify and select materials and tools</b> 1.1 Manipulate the tools and materials in a job/task	1 WEEK	<b>TLE_IAAW7/8UT-0a-1</b>
	The learner demonstrates an understanding of concepts and underlying principles in performing measurements and calculations.	The learner independently performs accurate measurements and calculation based on given tasks.	<b>LO 1. Select measuring instruments</b> 1.1 Manipulate the measuring tool for a specified task	1 WEEK	<b>TLE_IAAW7/8MC-0d-1</b>
			<b>LO 2. Carry out measurements and calculations</b> 2.1 Measure and calculate the dimensions of a specific object		<b>TLE_IAAW7/8MC-0d-e-2</b>
	The learner demonstrates an understanding of the concepts and underlying principles in OHS procedures.	The learner independently identifies hazards correctly in accordance with OHS procedures.	<b>LO 2. Evaluate hazards and risks</b> 2.1 Identify work hazards in the workplace	1 WEEK	<b>TLE_IAAW7/8OS-0f-2</b>
			<b>O 3. Control hazards and risks</b> 1.1 Demonstrate the use of PPEs in the workplace		<b>TLE_IAAW7/8OS-0g-3</b>

			1.2 Enumerate the benefits of observing safety procedure in the workplace		
	The learner demonstrates an understanding of concepts and underlying principles in the maintenance of SMAW tools and equipment.	The learner independently performs proper maintenance of SMAW tools and equipment based on industry standards.	<b>LO 1. Check condition of tools and equipment</b> 1.1 Functional and non-functional tools are labeled	1 WEEK	TLE_IAAW7/8MT-0h-1
			<b>LO 2. Perform basic preventive maintenance</b> 2.1 Maintenance of tools is done regularly	1 WEEK	TLE_IAAW7/8MT-0i-2
			<b>LO 3. Store tools and equipment</b> 1.1 Tools are stored safely in appropriate locations in accordance with manufacturer specifications or standard operating procedure		TLE_IAAW7/8MT-0i-3
	The learner demonstrates an understanding of the concepts and underlying principles in interpreting simple technical drawings in SMAW.	The learner independently reads and interprets simple technical drawings.	<b>LO 1. Analyze signs, symbols and data</b> 1.1 Determine appropriate welding materials based on technical drawings	1 WEEK	TLE_IAAW7/8ID-0i-j-1
			<b>LO 2. Interpret technical drawings</b> 2.1. Necessary tool, materials and equipment are identified according to plans		TLE_IAAW7/8ID-0i-j-2



**GRADE LEVEL: Grade 7/8**  
**SUBJECT: PLUMBING**  
**NOMINAL HOURS: 40 HOURS**  
**COMPONENT: INDUSTRIAL ARTS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates an understanding of concepts in the preparation of plumbing materials and tools using the different forms in electrical installation and maintenance.	The learner independently prepares appropriate plumbing materials and tools using the different forms in electrical installation and maintenance based on industry standards.	<b>LO 1. Prepare plumbing materials and tools for the task</b> 1.1 Prepare a list of plumbing tools and materials for a specific job	1 WEEK	<b>TLE_IAPB7/8UT-0a-1</b>
			<b>LO 2. Request appropriate plumbing supplies, materials and tools applicable to a specific job</b> 1.1 Use the appropriate form in requesting for plumbing tools, supplies and materials for a specific job	1 WEEK	<b>TLE_IAPB7/8UT-0a-2</b>
	The learner demonstrates an understanding of the concepts and underlying principles in performing measurements and calculations.	The learner independently performs accurate measurements and calculation based on given tasks.	<b>LO 1. Select plumbing measuring tools and instruments</b> 1.1 Choose measuring tools to be used for specific tasks		<b>TLE_IAPB7/8MC-0c-1</b>
			<b>LO 2. Carry out measurements and calculations</b> 2.1 Use appropriate measuring devices for specific tasks	2 WEEKS	<b>TLE_IAPB7/8MC-0d-2</b>

	The learner demonstrates an understanding of the concepts and underlying principles in interpreting simple technical drawings and plans in plumbing installation and maintenance.	The learner independently reads and interprets specifications of simple technical drawings and plans.	<b>LO 1. Analyze signs, plumbing symbols and data</b> 1.1 Read and interpret plumbing signs, symbols and data 1.2 Analyze plumbing components and materials based on electrical signs, symbols and data		<b>TLE_IAPB7/8ID-0e-1</b>
			<b>LO 2. Interpret technical drawings and plans</b> 1.1 Read blueprints of plumbing plans, diagrams and circuits 1.2 Identify necessary tools, materials and equipment according to blueprints of plumbing plans, diagrams and circuits		<b>TLE_IAPB7/8ID-0f-2</b>
	The learner demonstrates an understanding of the concepts and underlying principles in the maintenance of plumbing tools and equipment.	The learner independently performs proper maintenance of plumbing tools and equipment based on industry standards.	<b>LO 2. Perform basic preventive maintenance</b> 1.1 Maintenance of tools is done regularly	1 WEEK	<b>TLE_IAPB7/8MT-0g-2</b>
			<b>LO 3. Store tools and equipment</b> 1.1 Tools are stored safely in appropriate locations in accordance with		<b>TLE_IAPB7/8MT-0h-3</b>

			manufacturer specifications or standard operating procedure		
	The learner demonstrates an understanding of the concepts and underlying principles in occupational health and safety procedures	The learner independently identifies hazards correctly in accordance with occupational health and safety procedures.	<b>LO 1. Identify hazards and risks</b> 1.1 Observing safety work habits in the work place 1.2 Preventing hazards in the workplace	1 WEEK	<b>TLE_IAPB7/8OS-0i-1</b>
			<b>LO 2. Evaluate hazards and risks</b> 2.1 Identify work hazards in the workplace		<b>TLE_IAPB7/8OS-0i-2</b>

**GRADE LEVEL: Grade 7/8**

**SUBJECT: AUTOMOTIVE I / MOTORCYCLE SMALL ENGINE**

**NOMINAL HOURS: 40 HOURS**

**COMPONENT: INDUSTRIAL ARTS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learners demonstrate an understanding of concepts and underlying theories and principles in performing measurements and calculations	The learners shall be able to perform mensuration and calculation based on job requirements	<b>LO 1. Select Measuring Instrument</b> 1.1 Identify object or component to be measured 1.2 Obtain correct specifications from relevant source 1.3 Select appropriate measuring instrument as per job requirement	1 WEEK	
			<b>LO 2. Carry out measurement and calculation</b>	1 WEEK	

			2.1 Select measuring tools in line with job requirements 2.2 Obtain accurate measurements with job requirements 2.3 Perform calculations needed to complete work/task using fundamental operation of mathematics 2.4 Use calculations involving fractions, percentage, and mixed numbers to complete workplace tasks 2.5 Check correct and accurate numerical computation 2.6 Read instruments to the limit of accuracy of the tool		
			<b>LO 3. Maintain measuring instrument</b> 3.1 Keep measuring instruments free from corrosion 3.2 Do not drop measuring instrument to avoid damage Clean measuring instrument before and after using		<b>TLE_IAMSES9-12PMC-Ig-10</b>
	The learners demonstrate an understanding of concepts and underlying theories and principles in interpreting manuals of specifications in automotive servicing	The learners shall be able to read and interpret specification and manual	<b>LO 1. Identify and access manual/ specifications</b> 1.1 Identify and access appropriate manuals as per job requirement 1.2 Check version and date of manual to ensure correct specification and identify procedures	1 WEEK	<b>TLE_IAMSES9-12RIA-Ih-11</b>
			<b>LO 2. Interpret manuals</b>	1 WEEK	<b>TLE_IAMSES9-12RIA-Ih-12</b>

			2.1 Locate relevant sections, chapters of manuals/ specifications in relations to the work to be conducted 2.2 Interpret information and procedure in the manual in accordance to industry practices		
			<b>LO 3. Apply information accessed in the manual</b> 3.1 Interpret data and specification according to job requirement 3.2 Identify work steps correctly in accordance with manufacturer's specification 3.3 Apply manual data according to the given task 3.4 Interpret all correct sequence and adjustment in accordance with information contained on the manual or specification		<b>TLE_IAMSES9-12-RIA-lh-13</b>
	The learners demonstrate an understanding of concepts and underlying principles in performing shop maintenance	The learners shall be able to perform shop maintenance in accordance with OHS (occupational health and safety) procedures	<b>LO 1. Inspect and clean tools, equipment and work area</b> 1.1 Inspect and clean tools, equipment, and work to ensure that they are free from dust, grease, and other substances 1.2 Observe cleaning solvent used as per workshop cleaning requirements 1.3 Check and clean work area 1.4 Keep dry wet surface or spot in the work area	1 WEEK	<b>TLE_IAMSES9-12PSM-lj-18</b>
			<b>LO 2. Store/arrange tools and shop equipment.</b>	1 WEEK	<b>TLE_IAMSES9-12PSM-lj-19</b>

			2.1 Arrange and store tools and equipment in their respective shelves/location 2.2 Post visible corresponding labels		
			<b>LO 4. Report damaged tools/equipment</b> 4.1 Maintain complete inventory of tools and equipment 4.2 Identify damaged tools/equipment with repair recommendation		<b>TLE_IAMSES9-12PSM-lj-21</b>
	The learners demonstrate an understanding of concepts and underlying principles of interpreting/drawing technical drawings	The learners shall be able to interpret/execute technical drawing	<b>LO 1. Interpret technical drawing</b> 1.1 Recognize components and assemblies of objects 1.2 Recognize and interpret symbols 1.3 Identify appropriate dimensions 1.4 Follow instructions 1.5 Identify required materials and other consumables	1 WEEK	<b>TLE_IAAUTO9-12ITD-IVf-g-24</b>
			<b>LO 3. Apply freehand sketching</b> 3.1 Produce correct freehand sketches using the necessary tools and materials		<b>TLE_IAAUTO9-12ITD-IVh-j-26</b>
	The learners demonstrate an understanding of concepts and underlying principles of practicing health, safety, and environment procedures	The learner shall be able to perform job in practicing health, safety, and environment procedures	<b>LO 1. Apply basic safety procedures</b> 1.1 Maintain policies and procedures to achieve a safe working environment in line with OHS 1.2 Report all unsafe situations according to worksite policy 1.3 Report all machinery and equipment breakdown to supervisor and/or to person in charge	1 WEEK	<b>TLE_IAAUTO9-12PHSE-la-c-27</b>

			1.4 Identify fire and safety hazards and precautions 1.5 Identify dangerous goods and substances 1.6 Follow worksite policy regarding manual handling of hazardous substances 1.7 Participate in consultative arrangements established by company		
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**GRADE LEVEL:** Grade 7/8

**SUBJECT:** Electrical Installation Maintenance

**NOMINAL HOURS:** 40 HOURS

**COMPONENT:** INDUSTRIAL ARTS

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates an understanding of the concepts in the preparing electrical materials and tools using the different forms in electrical installation and maintenance.	The learner independently prepares appropriate electrical materials and tools using the different forms in electrical installation and maintenance based on industry standards.	<b>LO 1. Prepare electrical materials and tools for the task</b> 1.1 Prepare a list of electrical tools and materials for a specific job	1 week	TLE_IAEI7/8UT-0a-1
			<b>LO 2. Request appropriate electrical supplies materials and tools applicable to a specific job</b> 1.1 Use the appropriate form in requesting for electrical tools,		TLE_IAEI7/8UT-0a-2

[illegible]



			1.2 Observe periodic preventive and maintenance of electrical tools and equipment 1.2.1 Sharpening 1.2.2 Oiling 1.2.3 Insulating		
			<b>LO1. Identify hazards and risks</b> 1.1 List down hazards and risks in the workplace	1 week	<b>TLE_IAEI7/8OS-0h-1</b>
			<b>LO2. Control hazards and risks</b> 3.4. Determine effects of hazards and risks 3.5. Evaluate hazards and risks 3.6. Follow procedure for controlling hazards and risks in the workplace		<b>TLE_IAEI7/8OS-0i-2</b>

**GRADE LEVEL: Grade 7/8**

**SUBJECT: Electronic Product Assembly**

**NOMINAL HOURS: 40 HOURS**

**COMPONENT: INDUSTRIAL ARTS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learners demonstrate an understanding of the underlying principles in applying quality standards based on prescribed procedures and standards	The learners shall be able to apply quality standards based on prescribed procedures and standards	<b>LO 1. Assess quality of received materials or components</b> 1.1 Obtain work instructions in accordance with standard operating procedures 1.2 Carry out work in accordance with standard operating procedures 1.3 Check received materials or component parts against workplace standards and specifications 1.4 Isolate faults and faulty materials	<b>1 week</b>	<b>TLE_IAEPAS9-12AQS-Ia-1</b>

			<p>1.5 Record and/or report faults and faulty materials to the supervisor concerned in accordance with workplace procedures</p> <p>1.6 Replace faulty materials and components in accordance with workplace procedures</p>		
	The learners demonstrate an understanding of the underlying principles of operation and maintenance of a computer based on the task assigned and required outcome	The learners shall be able to perform computer operations based on the task assigned and required outcome	<p><b>LO 1. Plan and prepare for task to be undertaken</b></p> <p>1.1 Determine requirements of task in accordance with job specifications</p> <p>1.2 Select appropriate hardware and software in accordance with task assigned and required outcome</p>	1 week	<b>TLE_IAEPAS9-12PCO-lc-d-4</b>
			<p><b>LO 2. Input data into the computer</b></p> <p>2.1 Enter data into the computer using appropriate program/application</p> <p>2.2 Check information in accordance with standard operating procedures</p> <p>2.3 Store inputted data in storage media according to requirements</p>	1 week	<b>TLE_IAEPAS9-12PCO-lc-e-5</b>
			<b>LO 5. Maintain computer equipment and systems</b>		<b>TLE_IAEPAS9-12PCO-lg-8</b>

			5.1 Undergo systems cleaning, minor maintenance, and replacement of consumables 5.2 Implement procedures for ensuring security of data, including regular backups and virus checks 5.3 Perform basic file maintenance procedures		
	The learners demonstrate an understanding of the underlying principles in measurements and calculations in line with job requirements	The learners shall be able to perform mensuration and calculation in line with job requirements	<b>LO 1. Select measuring instrument</b> 1.1 Identify object or component to be measured 1.2 Obtain correct specifications from relevant source 1.3 Select measuring tools in line with job requirements	1 week	TLE_IAEPAS9-12PMC-Ig-h-9
			<b>LO 2. Carry out measurement and calculation</b> 2.1 Select appropriate measuring instrument 2.2 Obtain accurate measurements for job Perform calculation needed to complete work tasks		TLE_IAEPAS9-12PMC-Ih-j-10
			<b>LO 3. Maintain measuring instruments</b> 3.1 Handle measuring instruments without damage 3.2 Clean measuring instruments before and after using 3.3 Undertake proper storage of instruments		TLE_IAEPAS9-12PMC-Ij-11
	The learners demonstrate an understanding of the concepts in interpreting	The learners shall be able to prepare and interpret technical drawings according to job	<b>LO 1. Identify different kinds of technical drawings</b>	1 week	TLE_IAEPAS9-12PITD-Ila-12

	simple technical drawings and electronics diagram according to job requirements and company procedures	requirements and company procedures	1.1 Select appropriate technical drawing according to job requirements 1.2 Segregate technical drawings in accordance with the types and kinds of drawings		
			<b>LO 2. Interpret technical drawing</b> 2.1 Recognize components, assemblies, or objects 2.2 Correctly identify the dimensions of the key features of the objects depicted in the drawing 2.3 Interpret the symbols used in the drawing 2.4 Validate the drawing against job requirements or equipment		<b>TLE_IAEPAS9-12PITD-IIb-c-13</b>
	The learners demonstrate an understanding of the underlying principles in the use and maintenance of electronic hand tools based on standard company procedures	The learners shall be able to use and maintain hand tools based on standard company procedures	<b>LO 2. Prepare hand tools</b> 2.1 Check appropriate hand tools for proper operation and safety 2.2 Mark unsafe or faulty tools for repair in accordance with standard company procedure	<b>1 week</b>	<b>TLE_IAEPAS9-12UMHT-IIg-17</b>

			<b>LO 3 Use appropriate hand tools and equipment</b> 3.1 Use tools according to the tasks to be undertaken 3.2 Observe safety procedures in using tools at all times and use appropriate PPE 3.3 Report malfunctions, unplanned or unusual events to the supervisor		<b>TLE_IAEPAS9-12UMHT-IIh-i-18</b>
			<b>LO 4. Maintain hand tools</b> 4.1 Handle tools without damage according to procedures 4.2 Undergo routine maintenance of tools according to standard operational procedures, principles and techniques 4.3 Store tools safely in appropriate locations in accordance with manufacturer's specifications	<b>1 week</b>	<b>TLE_IAEPAS9-12UMHT-III-j-19</b>

**GRADE LEVEL: Grade 7/8**

**SUBJECT: Domestic Refrigeration and Air- conditioning**

**NOMINAL HOURS: 40 HOURS**

**COMPONENT: INDUSTRIAL ARTS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates an understanding of the concepts in the preparation of RAC materials and tools using the different forms in RAC.	The learner independently prepares appropriate RAC materials and tools using the different forms in RAC based on industry standards.	<b>LO 1. Prepare RAC materials and tools for the task</b> 1.1 Prepare a list of electrical tools and materials for a specific job	1 week	<b>TLE_IARA7/8UT-0a-1</b>
			<b>LO 2. Request appropriate RAC supplies, materials and tools applicable to a specific job</b> 2.1 Use the appropriate form in requesting for electrical tools, supplies and materials for a specific job		<b>TLE_IARA7/8UT-0a-2</b>
	The learner demonstrates an understanding of the concepts and underlying principles in performing measurements and calculations.	The learner independently performs accurate measurements and calculation based on given tasks.	<b>LO 1. Select electrical measuring tools and instruments</b> 1.1 Identify object or component to be measured 1.2 Choose measuring tools to be used for specific tasks 1.3 Identify alternative measuring tools without sacrificing cost and quality of work	1 week	<b>TLE_IARA7/8MC-0c-1</b>

			<b>LO 2. Carry out measurements and calculations</b> 2.1. Use appropriate measuring devices for specific tasks 2.2. Compute for required data 2.3. Convert data to its equivalent measure		<b>TLE_IARA7/8MC0-d-2</b>
	The learner demonstrates an understanding of the concepts and underlying principles in interpreting simple technical drawings and plans in RAC.	The learner independently reads and interprets specifications of simple technical drawings and plans.	<b>LO 1. Analyze signs, RAC symbols and data</b> 1.1 Read and interpret RAC signs, symbols and data 1.2 Analyze RAC components and materials based on electrical signs, symbols and data	<b>1 week</b>	<b>TLE_IARA7/8ID-0e-1</b>
			<b>LO 2. Interpret technical drawings and plans</b> 2.1. Read blueprints of RAC plans, diagrams and circuits 2.2. Identify necessary tools, materials and equipment according to blueprints of RAC plans, diagrams and circuits		<b>TLE_IARA7/8ID-0f-2</b>
	The learner demonstrates an understanding of the underlying principles in the maintenance of RAC tools and equipment.	The learner independently performs proper maintenance of RAC tools and equipment based on industry standards.	<b>LO 1. Check condition of tools and equipment</b> 1.1 Label functional and non-functional tools and equipment	<b>1 week</b>	<b>TLE_IARA7/8MT-0g-1</b>
			<b>LO 2. Perform basic maintenance</b>	<b>1 week</b>	<b>TLE_IARA7/8MT-0h-2</b>

			1.1 Perform cleaning and lubricating of tools 1.2 Observe periodic preventive and maintenance of RAC tools and equipment 1.2.1 Sharpening 1.2.2 Oiling 1.2.3 Insulating		
			<b>LO 3. Store tools and equipment</b> 3.1. Prepare inventory of tools and equipment 3.2. Store tools and equipment in their proper place		<b>TLE_IARA7/8MT-0h-3</b>
	The learner demonstrates an understanding of the concepts and underlying principles of occupational health and safety procedures.	The learner independently simulates occupational health and safety procedures.	<b>LO 1. Identify hazards and risks</b> 1.1 List down hazards and risks in the workplace	1 week	<b>TLE_IARA7/8OS-0i-1</b>
			<b>LO 2. Control hazards and risks</b> 2.1 Determine effects of hazards and risks 2.2 Evaluate hazards and risks 2.3 Follow procedure for controlling hazards and risks in the workplace	1 week	<b>TLE_IARA7/8OS-0i-2</b>
			<b>LO 3. Practice OHSP</b>		<b>TLE_IARA7/8OS-0j-3</b>



GRADE LEVEL: 7/8

SUBJECT: TECHNOLOGY AND LIVELIHOOD EDUCATION

COMPONENT: Information and Communication Technology (Computer Systems Servicing) (40 hours)

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
<b>LESSON 1: USING AND MAINTAINING HAND TOOLS (UHT)</b>					
<b>0</b>	The learners demonstrate an understanding of the use of hand tools and equipment for computer systems servicing	The learners shall be able to use hand tools and equipment for computer systems servicing	<b>LO 1. Plan and prepare for tasks to be undertaken</b> 1.1 Identify tasks to be undertaken properly 1.2 Identify and select appropriate hand tools according to the task requirements	<b>1 Week</b>	<b>TLE_IACSS9-12UHT-IIIa-17</b>
			<b>LO 2. Prepare hand tools</b> 2.1 Check appropriate hand tools for proper operation and safety 2.2 Identify and mark unsafe or faulty tools for repair according to standard company procedure		<b>TLE_IACSS9-12UHT-IIIb-18</b>
			<b>LO 3. Use appropriate hand tools and test equipment</b> 3.1 Use tools according to tasks undertaken. 3.2 Observe all safety procedures in using tools at all times and use appropriate PPE 3.3 Report malfunctions, unplanned or unusual events to the supervisor		<b>TLE_IACSS9-12UHT-IIIc-19</b>
			<b>LO 4. Maintain hand tools</b> 4.1 Do not drop tools to avoid damage; carry out routine maintenance of tools according to standard operational procedures, principles, and techniques		<b>TLE_IACSS9-12UHT-IIId-20</b>

			4.2 Store tools safely in appropriate locations in accordance with manufacturer's specifications or standard operating procedures		
<b>LESSON 2: PERFORMING COMPUTER OPERATIONS (PCO)</b>					
<b>0</b>	The learners demonstrate and understanding of concepts and underlying principles in performing computer operations	The learners shall be able to perform computer operations based on a given tasks	<b>LO 1. Plan and prepare for task to be undertaken</b> 1.1 Determine requirements of task in accordance with the required output 1.2 Select appropriate hardware and software according to task assigned and required outcome 1.3 Plan a task to ensure that OSH guidelines and procedures are followed 1.4 Follow client-specific guidelines and procedures 1.5 Apply required data security guidelines in accordance with existing procedures	<b>2 weeks</b>	<b>TLE_IACSS9-12PCO-lc-d-4</b>
			<b>LO 2. Input data into computer</b> 2.1 Enter the data into the computer using appropriate program/application in accordance with company procedures 2.2 Check the accuracy of information and save the information in accordance with standard operating procedures 2.3 Store inputted data in storage media according to requirements 2.4 Perform work within ergonomic guidelines		<b>TLE_IACSS9-12PCO-lc-e-5</b>
			<b>LO 3. Access information using computer</b> 3.1 Select correct program/application based on job requirements 3.2 Access program/application containing the information required according to company procedures		<b>TLE_IACSS9-12PCO-lc-f-6</b>

0			<p>3.3 Select, open, and close desktop for navigation purposes</p> <p>3.4 Carry out keyboard techniques in line with OSH requirements</p>		
			<p><b>LO 4. Produce output/ data using computer system</b></p> <p>4.1 Process entered data using appropriate software commands</p> <p>4.2 Print out data as required using computer hardware /peripheral devices in accordance with standard operating procedures</p> <p>4.3 Transfer files and data between compatible systems using computer software, hardware/peripheral devices in accordance with standard operating procedures</p>		TLE_IACSS9-12PCO-If-7
			<p><b>LO 5. Use basic functions of a www-browser to locate information</b></p> <p>5.1 Establish information requirements for internet search</p> <p>5.2 Launch browser</p> <p>5.3 Load search engine</p> <p>5.4 Enter appropriate search criteria/or URL of site</p> <p>5.5 Follow relevant links to locate required information</p> <p>5.6 Bookmark useful pages and print as required</p>		TLE_IACSS9-12PCO-Ig-h-8
			<p><b>LO 6. Maintain computer equipment and systems</b></p> <p>6.1 Implement procedures for ensuring security of data, including regular backups and virus checks in accordance with standard operating procedures</p>		TLE_IACSS9-12PCO-li-j-9

			6.2 Implement basic file maintenance procedures in line with the standards operating procedures		
<b>LESSON 3: PERFORMING MENSURATION AND CALCULATION (PMC)</b>					
<b>0</b>	The learners demonstrate an understanding of concepts and underlying principles in performing measurements and calculations	The learners shall be able to accurately measure and calculate based on a given tasks	<b>LO 1. Select measuring instruments</b> 1.1 Identify object/s or component to be measured 1.2 Obtain correct specifications from relevant source 1.3 Select measuring tools in line with job requirements	<b>1 Week</b>	<b>TLE_IACSS9-12PMC-IIa-b-10</b>
			<b>LO 2. Carry out measurements and calculation</b> 2.1 Select appropriate measuring instrument to achieve required outcome 2.2 Obtain accurate measurements for job 2.3 Perform calculation needed to complete task using the four mathematical fundamental operations addition (+), subtraction (-), multiplication (x), and division (÷) 2.4 Use calculation involving fractions, percentages and mixed numbers to complete workplace tasks 2.5 Self-check and correct numerical computation for accuracy 2.6 Read instruments to the limit of accuracy of the tool		<b>TLE_IACSS9-12PMC-IIb-d-11</b>
			<b>LO 3. Maintain measuring instruments</b> 3.1 Ensure proper handling of measuring instruments to avoid damage and clean it before and after using		<b>TLE_IACSS9-12PMC-IIe-f-12</b>

			3.2 Identify tasks to be undertaken for proper storage of instruments according to manufacturer's specifications and standard operating procedures		
<b>LESSON 4: PREPARING AND INTERPRETING TECHNICAL DRAWING (PITD)</b>					
	The learners demonstrate and understanding of concepts and underlying principles in preparing and interpreting technical drawings and work plans for computer systems servicing	The learners shall be able to prepare and interpret technical drawings and work plans accurately	<b>LO 1. Identify different kinds of technical drawings</b> 1.1 Select correct technical drawing in accordance with the job requirement 1.2 Segregate technical drawings in accordance with the types and kinds of drawings	<b>1 Week</b>	
<b>0</b>			<b>LO 2. Interpret technical drawing</b> 2.1 Recognize components, assemblies, or objects as required 2.2 Identify dimensions of the key features of the objects depicted in the drawing 2.3 Identify and interpret symbols used in the drawing 2.4 Check and validate drawing against job requirements or equipment in accordance with standard operating procedures		<b>TLE_IACSS9-12PITD-IIg-h-14</b>
			<b>LO 3. Prepare/ make changes to electrical/ electronic schematics and drawings</b> 3.1 Draw and identify correctly electrical/ electronic schematic		<b>TLE_IACSS9-12PITD-IIh-i-15</b>

			3.2 Identify correct drawing; select and use equipment in accordance with job requirements		
			<b>LO 4. Store technical drawings and equipment/ instruments</b> 4.1 Identify tasks to be undertaken for care and maintenance of drawings according to company procedures 4.2 Record technical drawings and prepare an inventory in accordance with company procedures 4.3 4.3 identify tasks to be undertaken for proper storage of instruments according to company procedures		TLE_IACSS9-12PITD-IIj-16
<b>LESSON 5: TERMINATING AND CONNECTING ELECTRICAL WIRING AND ELECTRONICS CIRCUIT (TCEW)</b>					
0	The learners demonstrate an understanding of concepts and underlying principles in terminating and connecting electrical wiring and electronics circuits	The learner shall be able to demonstrate proper termination and connection of electrical wiring and electronics circuits	<b>LO 1. Plan and prepare for termination/ connection of electrical wiring/ electronics circuits</b> 1.1 Check materials according to specifications and tasks 1.2 Select appropriate tools and equipment according to task requirements 1.3 Follow planned task to ensure OHS guidelines and procedure 1.4 Prepare electrical wiring/electronics circuits correctly for connecting/terminating in accordance with instruction and work site procedures	1 Week	TLE_IACSS9-12TCEW-IIIe-f-21
			<b>LO 2: Terminate/connect electrical wiring/ electronic circuits</b>		TLE_IACSS9-12TCEW-IIIg-i-22

			2.1 Observe safety procedures in using tools and use appropriate personal protective equipment at all times 2.2 Identify the tasks to be undertaken to work safely in accordance with the workplace and standard procedures 2.3 Use appropriate range of methods in termination/connection in accordance to specifications, manufacturer's requirements, and safety 2.4 Follow correct sequence of operation 2.5 Adjust used accessories 2.6 Confirm termination/connection in accordance with job specification		
			<b>LO 3: Test termination/connections of electrical wiring/electronics circuits</b> 3.1 Conduct complete testing of termination/connection of electrical wiring/electronics circuits in compliance with specifications and regulations using appropriate procedures and equipment 3.2 Check wirings and circuits using specified testing procedures 3.3 Respond to unplanned events or conditions in accordance with established procedures		<b>TLE_IACSS9-12TCEW-IIIi-j-23</b>
<b>LESSON 6: TESTING ELECTRONIC COMPONENTS (TEC)</b>					
	The learners demonstrate an understanding of concepts and underlying principles in testing electronic components	The learners shall be able to test electronic components	<b>LO 1: Determine criteria for testing electronics components</b> 1.1 Obtain and clarify work instructions based on job order or client requirements 1.2 Consult responsible person for effective and proper work coordination		<b>TLE_IACSS9-12TEC-IVa-c-24</b>

0			1.3 Obtain and interpret data sheets/application notes based on manufacturer's specifications 1.4 Define testing criteria to ensure that components meet technical and quality requirements 1.5 Document and communicate testing criteria to relevant personnel	2 Weeks	
			<b>LO 2: Plan an approach for components testing</b> 2.1 Identify various testing methods based on types of electronic components 2.2 Determine characteristics and appropriateness of testing methods to be used during development and on completion 2.3 Consider/select testing methods in relation to appropriate testing strategy 2.4 Develop plan for testing components at specified points during development and on completion 2.5 Prepare and check required test and measuring instruments and tools in accordance with established procedures 2.6 Establish records system to document testing results, including problems and faults		TLE_IACSS9-12TEC-IVc-e-25
			<b>LO 3: Test components</b> 3.1 Apply appropriate testing methods to electronic components in accordance to technical specifications 3.2 Detect and record problems and faults by testing 3.3 Document remedial steps		TLE_IACSS9-12TECO-IVf-h-26



			3.4 Resolve detected problems and faults during testing in accordance with agreed project or industry practice 3.5 Evaluate final products against the determined criteria 3.6 Submit to relevant personnel the documented and summarized evaluation report of the testing process		
			<b>LO 4: Evaluate the testing process</b> 4.1 Identify testing methods that were successful based on industry standards 4.2 Evaluate testing process and records system based on standard procedures 4.3 Document test results/findings for subsequent testing		TLE_IACSS9-12TECO-IVh-j-27

**GRADE LEVEL: 7/8**

**SUBJECT: TECHNOLOGY AND LIVELIHOOD EDUCATION**

**COMPONENT: Information and Communication Technology (Technical Drafting) (40 hours)**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
<b>LESSON 1: USE OF TOOLS AND EQUIPMENT (UT)</b>					
<b>0</b>	The learners demonstrate an understanding of hand tools and equipment in Technical Drafting	The learners shall be able to use hand tools and equipment in Technical Drafting	<b>LO 1. Prepare hand tools and equipment in technical drafting</b> 1.1 List hand tools and equipment based on job requirement 1.2 Identify appropriate hand tools and equipment <b>1.3</b> Classify hand tools and equipment according to function and task requirement	<b>1 Week</b>	TLE_ICTD7/8UT-0a-1
<b>LESSON 2: MAINTAIN HAND TOOLS, DRAWING INSTRUMENTS, EQUIPMENT AND PARAPHERNALIA (MT)</b>					

0	The learners demonstrate an understanding of concepts and principles in maintaining hand tools, drawing instruments, equipment, and paraphernalia	The learners shall be able to maintain tools, drawing instruments, equipment, and paraphernalia	<b>LO 1. Maintain hand tools, drawing instruments, equipment, and paraphernalia</b> 1.1 Perform safety procedures in maintaining hand tools, drawing instruments, equipment, and paraphernalia 1.2 Follow procedures in cleaning, tightening and simple repair of hand tools, drawing instruments, equipment, and paraphernalia 1.3 Identify common malfunction (unplanned or unusual events) when using tools, drawing instruments, equipment, and paraphernalia	2 Weeks	TLE_ICTTD7/8MT-0b-1
			<b>LO 2. Inspect hand tools, drawing instruments, equipment, and paraphernalia received in technical drafting</b> 2.1 Follow the standard procedures in accomplishing forms 2.2 Check the list of hand tools, drawing instruments, equipment, and paraphernalia to be requested per job requirement 2.3 Evaluate the condition of all the requested hand tools, drawing instruments, equipment, and paraphernalia for proper operation and safety		TLE_ICTTD7/8MT-0c-d-2
			<b>LO 3. Prepare an inspection report of the hand tools, drawing instruments, equipment, and paraphernalia received in technical drafting</b>		TLE_ICTTD7/8MT-0e-3

			1.1 Follow procedures in preparing an inspection report to the property custodian		
LESSON 3: PERFORM MENSURATION AND CALCULATION (MC)					
0	The learners demonstrate an understanding of concepts and principles in performing measurements and calculation	The learners shall be able to perform accurate measurements and calculation based on a given task.	<b>LO 1. Select measuring instruments</b> 1.1 Identify measuring tools based on the object to be measured or job requirements 1.2 Select appropriate measuring instruments according to job requirements 1.3 Interpret an object or component to be measured according to the appropriate regular geometric shapes 1.4 Use alternative measuring tools without sacrificing cost and quality of work	1 Week	TLE_ICTTD7/8MC-0f-1
			<b>LO 2. Carry out mensuration and calculation</b> 2.1 Perform calculation needed to complete task by applying trade mathematics/mensuration 2.2 Employ different techniques in checking for accuracy of the computation		TLE_ICTTD7/8MC-0g-2
LESSON 4: PREPARE AND INTERPRET TECHNICAL DRAWING (TD)					
0	The learners demonstrate an understanding of concepts and principles in interpreting technical drawings and work plans	The learners shall be able to read and interpret technical drawings and work plans accurately	<b>LO 1. Analyze signs, symbols, and data</b> 1.1 Identify signs and symbols used in technical drawing 1.2 Analyze data indicated in the technical drawing	2 Weeks	TLE_ICTTD7/8TD-0h-1

			<b>LO 2. Interpret technical drawings and plans</b> 2.1 Identify necessary materials according to the technical drawing 2.2 Recognize components, assemblies, or objects based on job requirements 2.3 Identify dimensions and specifications according to job requirements		<b>TLE_ICTTD7/8MC-0i-2</b>
<b>LESSON 5: PRACTICE OCCUPATIONAL HEALTH AND SAFETY PROCEDURE (OS)</b>					
<b>0</b>	The learners demonstrate an understanding of concepts and underlying principles of Occupational Health and Safety (OHS) in relation to health and risk hazards in the workplace	The learners shall be able to consistently observe precautionary measures and respond to risks and hazards in the workplace	<b>LO 1. Identify hazards and risks</b> 1.1 Follow OHS policies and procedures in identifying hazards and risks 1.2 Explain hazards and risks in the workplace 1.3 Identify hazards and risks indicators as prescribed by the manufacturer 1.4 Apply contingency measures in accordance with the OHS procedures	<b>1 Week</b>	<b>TLE_ICTTD7/8OS-0j-1</b>
			<b>LO 2. Evaluate and control hazards and risks</b> 2.1 Determine the effects of hazards in the workplace 2.2 Identify the methods in controlling hazards and risks 2.3 Follow OHS procedures for controlling hazards and risks		<b>TLE_ICTTD7/8OS-0j-2</b>
			<b>LO 3. Maintain Occupational Health and Safety</b>		<b>TLE_ICTTD7/8OS-0j-2</b>

			1.1 Observe established procedures in responding to emergency-related drill 1.2 Fill-up OHS personal records in accordance with SOP		
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**GRADE LEVEL:** Grade 7/8

**SUBJECT:** TECHNOLOGY AND LIVELIHOOD EDUCATION

**COMPONENT:** Information and Communication Technology (Illustration) (40 hours)

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
<b>LESSON 1: USE OF HAND TOOLS (UT)</b>					
<b>0</b>	The learners demonstrate an understanding of hand tools and equipment in Illustration	The learners shall be able to use hand tools and equipment in Illustration	<b>LO 1. Prepare hand tools and equipment in Illustration</b> 1.1 List hand tools and equipment based on job requirement 1.2 Identify appropriate hand tools and equipment 1.3 Classify hand tools and equipment according to function and task requirement	<b>1 Week</b>	<b>TLE ICTIL7/8UT-0a-1</b>
<b>LESSON 2: MAINTAIN HAND TOOLS, DRAWING INSTRUMENTS, EQUIPMENT AND PARAPHERNALIA (MT)</b>					
<b>0</b>	The learners demonstrate an understanding of concepts and principles in maintaining hand tools, drawing instruments, equipment, and paraphernalia	The learners shall be able to maintain tools, drawing instruments, equipment, and paraphernalia	<b>LO 1. Inspect hand tools and equipment received in Illustration</b> 1.1 Check list of tools and equipment to be requested per job requirement 1.2 Inspect the condition of all the requested tools and equipment 1.3 Assess the hand tools and equipment for proper operation and safety <b>LO 2. Use and maintain hand tools, measuring instrument and equipment</b>	<b>2 Weeks</b>	<b>TLE ICTIL7/8MT-0b-1</b>  <b>TLE ICTIL7/8MT-0c-2</b>

			<p>2.1 Perform safety procedures in using hand tools and equipment</p> <p>2.2 Follow procedures in cleaning illustration tools</p> <p>2.3 Identify malfunction, unplanned or unusual events and report to property custodian</p>		
			<p><b>LO 3. Prepare an inspection report of the hand tools, drawing instruments, equipment, and paraphernalia received in technical drafting</b></p> <p>1.2 Follow procedures in preparing an inspection report to the property custodian</p>		
<b>LESSON 3: PERFORM MENSURATION AND CALCULATION (MC)</b>					
<b>0</b>	The learners demonstrate an understanding of concepts and principles in performing measurements and calculation	The learners shall be able to perform accurate measurements and calculation based on a given task.	<p><b>LO 1. Select measuring instruments</b></p> <p>1.1 Interpret object or component to be measured according to the appropriate regular geometric shape</p> <p>1.2 Select measuring tools appropriate to the object to be measured based on job requirements</p> <p>1.3 Obtain correct specification from relevant sources</p> <p>1.4 Select appropriate measuring instruments according to job requirements</p> <p>1.5 Use alternative measuring tools without sacrificing cost and quality of work</p>	<b>1 Week</b>	<b>TLE_ICTIL7/8MC-0d-1</b>
			<b>LO 2. Carry out mensuration and calculation</b>		<b>TLE_ICTIL7/8MC-0e-2</b>

			2.3 Perform calculation needed to complete task by applying trade mathematics/mensuration 2.4 Employ different techniques in checking for accuracy of the computation		
LESSON 4: PREPARE AND INTERPRET TECHNICAL DRAWING (TD)					
0	The learners demonstrate an understanding of concepts and principles in interpreting technical drawings and work plans	The learners shall be able to read and interpret technical drawings and work plans accurately	LO 1. Analyze signs, symbols, and data 1.1 Prepare tools and instruments used in illustration 1.2 Interpret signs, symbols, and data according to job specifications 1.3 Perform simple trade mathematical conversions	2 Weeks	TLE ICTIL7/8TD-0f-1
			LO 2. Interpret illustration drawings and plans 2.1 Identify illustration tools and materials to be used in preparing a simple illustration 2.2 Identify dimensions and specifications according to job requirements		TLE ICTIL7/8TD-0g-2
LESSON 5: PRACTICE OCCUPATIONAL HEALTH AND SAFETY PROCEDURE (OS)					
0	The learners demonstrate an understanding of concepts and underlying principles of Occupational Health and Safety (OHS) in relation to health and risk hazards in the workplace	The learners shall be able to consistently observe precautionary measures and respond to risks and hazards in the workplace	LO 1. Identify hazards and risks 1.5 Follow OHS policies and procedures in identifying hazards and risks 1.6 Explain hazards and risks in the workplace 1.7 Identify hazards and risks indicators as prescribed by the manufacturer 1.8 Apply contingency measures in accordance with the OSH procedures	1 Week	TLE ICTIL7/8OS-0h-1
			LO 2. Evaluate and control hazards and risks		TLE ICTIL7/8OS-0i-2

			2.4 Determine the effects of hazards in the workplace 2.5 Identify the methods in controlling hazards and risks 2.6 Follow OHS procedures for controlling hazards and risks		
			<b>LO 3. Maintain Occupational Health and Safety</b> 1.3 Observe established procedures in responding to emergency-related drill 1.4 Fill-up OHS personal records in accordance with SOP		TLE ICTIL7/8OS-0j-3

### Entrepreneurship for Grade 7/8 Exploratory

The teaching of entrepreneurship shall be contextualized to the mini courses under each component

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
	The learner demonstrates understanding of the key concepts and underlying principles of identifying business opportunities and market in one's community or locality	The learner independently creates a business vicinity map showing target market in his/her community or locality	Discuss principles and strategies on identifying business opportunities  Explore business/ career opportunities	1 Week	
	The learner demonstrates understanding of concepts, underlying principles of developing simple business plan	The learner independently prepares and present a simple business plan	Analyze the market needs  Determine the possible products and services that will meet the need	2 Weeks	TLE ICTAN11/12PC-Ia-1



			Select the best product or service that will meet the market need		
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**Note: Simulation of a Simple Home-Based Micro Business aligned to the mini course/s taken, may be employed as an alternative.**

**GRADE LEVEL: 9/10/11/12**

**SUBJECT: NEEDLECRAFT**

**NOMINAL HOURS: 160 HOURS**

**COMPONENT: HOME ECONOMICS**

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
1 <sup>ST</sup> QUARTER	The learner applies the principles of art and handicraft to create a beautiful and marketable embroidered product.	The learner performs skillfully the use of design, materials, and techniques to create embroidered products.	<b>LO 1. Understand concepts related to needlecraft</b> 1.1 Identify major needlecraft techniques 1.2 State safety and precautionary measures	1 WEEK	<b>TLE_HEHC9-12PE-Ia-b-2</b>
			<b>LO 1. Understand embroidery as a craft and its techniques</b> 1.1 Define embroidery as a needlecraft technique 1.2 Identify the tools and materials used;	1 WEEK	<b>TLE_HEHC9-12PE-Ia-b-2</b>
			<b>LO 2. Create embroidered products with package</b> 2.1 Manipulate properly the tools and materials for embroidery 2.2 Combine stitching techniques in embroidery, Calado and smocking to create a well-made project. 2.3 Select appropriate and quality packaging material for embroidered articles	6 WEEKS	<b>TLE_HEHC9-12PE-Ic-j-2</b>