

**K to 12 BASIC EDUCATION CURRICULUM
TECHNOLOGY AND LIVELIHOOD EDUCATION
INDUSTRIAL ARTS – CONSUMER ELECTRONICS SERVICING NCII
Grade 7/Grade 8 (Exploratory)**

Course Description:

This is an exploratory and introductory course which leads to a **Consumer Electronics Servicing** National Certificate Level II (NCII). It covers **five** common competencies that the **Grade 7/Grade 8** Technology and Livelihood Education (TLE) student ought to possess: (1) using tools, equipment and paraphernalia; (2) performing mensuration and calculation; (3) practicing Occupational Health and Safety (OHS) procedures; (4) maintaining tools, equipment and paraphernalia; and (5) interpreting technical drawing and plans.

The preliminaries of this exploratory course include the following: (1) discussion on the relevance of the course, 2) explanation of key concepts relative to the course, and (3) exploration of career opportunities.

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
Introduction 1. Basic concepts in electronics servicing 2. Relevance of the course 3. Career opportunities	The learner demonstrates an understanding of the basic concepts and underlying theories in consumer electronics servicing.	The learner independently demonstrates an common competencies in electronics servicing as prescribed by TESDA Training Regulations.	1. Explain basic concepts in electronics servicing 2. Discuss the relevance of the course 3. Explore career opportunities in electronics servicing	
PERSONAL ENTREPRENEURIAL COMPETENCIES AND SKILLS (PeCS)				
1. Assessment of Personal Entrepreneurial Competencies and Skills (PeCS) vis-à-vis a practicing entrepreneur/employee 1.1 Characteristics 1.2 Attributes 1.3 Lifestyle 1.4 Skills 1.5 Traits 2. Analysis of one's PeCS	The learner demonstrates an understanding of one's Personal Entrepreneurial Competencies and Skills (PeCS).	The learner recognizes his/her Personal Entrepreneurial Competencies and Skills (PeCS) and prepares a list of PeCS of a practitioner/entrepreneur in consumer electronics servicing.	LO 1. Recognize Personal Entrepreneurial Competencies and Skills (PeCS) needed in consumer electronics servicing 1.1 Assess one's PeCS: characteristics, attributes, lifestyle, skills, traits 1.2 Assess practitioner's: characteristics, attributes, lifestyle, skills, traits 1.3 Compare one's PeCS with those of a practitioner /entrepreneur	TLE_PECS7/8-0k-1

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
ENVIRONMENT AND MARKET (EM)				
<ol style="list-style-type: none"> 1. Key concepts of Environment and Market 2. Products & services available in the market 3. Differentiation of products and services 4. Customers and their buying habits 5. Competition in the market 6. SWOT Analysis 	<p>The learner demonstrates an understanding of the concepts environment and market and how they relate with a career choice in consumer electronics servicing.</p>	<p>The learner independently generates a business idea based on the analysis of environment and market in consumer electronics servicing.</p>	<p>LO 1. Generate a business idea that relates with a career choice in Consumer Electronics Servicing</p> <ol style="list-style-type: none"> 1.1 Conduct SWOT analysis 1.2 Identify the different products/services available in the market 1.3 Compare different products/services in the consumer electronics servicing business 1.4 Determine profile of potential customers 1.5 Determine profile of potential competitors 1.6 Generate potential business ideas based on the SWOT analysis 	<p>TLE_EM7/8-0k-1</p>
LESSON 1: USE HAND TOOLS (UT)				
<ol style="list-style-type: none"> 1. Electronic hand tools and test equipment 	<p>The learner demonstrates an understanding of the underlying principles in the use of electronic hand tools.</p>	<p>The learner independently uses the electronic hand tools.</p>	<p>LO1. Plan for tasks to be undertaken</p> <ol style="list-style-type: none"> 1.1 Select the appropriate hand tools for the job/task <p>LO2. Prepare hand tools</p> <ol style="list-style-type: none"> 2.1 Check hand tools for proper operation and safety <p>LO3. Use appropriate hand tools and test instruments</p> <ol style="list-style-type: none"> 3.1 Apply the appropriate hand tool for the given tasks 	<p>TLE_IAES7/8UT-0a-1</p> <p>TLE_IAES7/8UT-0a-2</p> <p>TLE_IAES7/8UT-0b-3</p>
LESSON 2: PERFORM MENSURATION AND CALCULATION (MC)				

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
1. Multitester 2. Resistor color coding	The learner demonstrates an understanding of the underlying principles in measurements and calculations.	The learner independently performs accurate measurements and calculation based on given tasks.	LO1. Select measuring instrument 1.1 Select appropriate measuring instruments for a specific task. LO2. Carry out measurement and calculation 2.1 Measure the resistance using a multitester 2.2 Compute for the value of resistors based on its color code	TLE_IAES7/8MC-0c-1 TLE_IAES7/8MC-0d-2
LESSON 3: PREPARE AND INTERPRET TECHNICAL DRAWINGS (ID)				
1. Electronics components and electronic symbols 2. Schematic diagrams	The learner demonstrates an understanding of the concepts in interpreting simple technical drawings and electronics diagram.	The learner independently reads and interprets simple technical drawings and diagrams based on IEE (Institution of Electrical Engineers) standards.	LO1. Prepare the identified electronic component from the identified electronic diagrams 1.1 Describe the electronic component being asked based on the electronic diagram 1.2 Identify the proper electronic component or its equivalent value for the given electronic diagram LO2. Interpret technical drawing. 2.1 Interpret working plans and electronic diagrams	TLE_IAES7/8ID-0e-1 TLE_IAES7/8ID-0f-2
LESSON 4: OBSERVING OCCUPATIONAL HEALTH AND SAFETY (OS)				

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
<p>1. Personal Protective Equipment (PPE) 2. Safety in the workplace</p>	<p>The learner demonstrates an understanding of the underlying principles in occupational health and safety procedures.</p>	<p>The learner independently prepares occupational health and safety checklist being applied in industries.</p>	<p>LO 1. Identify health hazards and occupational risks 1.1 List down the different health hazards and risks found in the workplace 1.2 Discuss the effects of the health hazards and occupational risks</p> <p>LO 2. Observe occupational health and safety practices 2.1 Prepare checklist on observations of occupational health and safety practices</p>	<p>TLE_IAES7/8OS-0g-1</p> <p>TLE_IAES7/8OS-0h-2</p>
LESSON 5: MAINTAIN HAND TOOLS AND EQUIPMENT (MT)				
<p>1. Maintenance of electronic tools and test instruments</p>	<p>The learner demonstrates an understanding of the concepts in the maintenance of electronic hand tools and test instruments.</p>	<p>The learner independently performs maintenance of electronic hand tools and test instruments based on industry standards.</p>	<p>LO 1. Maintain hand tools 1.1 Check and clean tools and test instruments after each use 1.2 Store hand tools safely in appropriate locations based on manufacturer’s specifications or standard operating procedure</p> <p>LO 2. Perform preventive maintenance of tools 2.1 Conduct preventive maintenance</p>	<p>TLE_IAES7/8MT-0i-1</p> <p>TLE_IAES7/8MT-0j-2</p>

**K to 12 BASIC EDUCATION CURRICULUM
TECHNOLOGY AND LIVELIHOOD EDUCATION
INDUSTRIAL ARTS – CONSUMER ELECTRONICS SERVICING NCII
Grade 9 (Specialization)**

Course Description:

This is a standards based curriculum leading to a TESDA Qualification Standard for a **Consumer Electronics Servicing** National Certificate Level I (N II). It covers two (2) core competencies that the **Grade 9** student should acquire: (1) assembling and disassembling of consumer electronic product and system, and 2) maintaining and repairing electronically controlled domestic appliances.

The preliminaries of this course include the following: (1) discussion on the relevance of the course, (2) explanation of key concepts relative to the course, and 3) exploration of career opportunities.

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
<p>Introduction:</p> <ol style="list-style-type: none"> 1. Core concepts in Electronics Servicing 2. Relevance of the course 3. Employment /Business opportunities 	<p>The learner demonstrates an understanding of the basic concepts and underlying theories in consumer Electronics servicing.</p>	<p>The learner independently demonstrates an understanding of the core competencies in electronics servicing as prescribed by TESDA Training Regulations.</p>	<ol style="list-style-type: none"> 1. Explain core concepts in electronics servicing. 2. Discuss relevance of the course 3. Explore opportunities for employment/business 	
PERSONAL ENTREPRENEURIAL COMPETENCIES (PeCS)				
<ol style="list-style-type: none"> 1. Assessment of learner’s Personal Competencies and Skills (PeCS) vis-à-vis PeCS of a practicing entrepreneur/ employee in locality/town. <ol style="list-style-type: none"> 1.1 Characteristics 1.2 Attributes 1.3 Lifestyle 1.4 Skills 1.5 Traits 2. Analysis of one’s PeCS 3. Align, strengthen and develop one’s PeCS based on the results 	<p>The learner demonstrates an understanding of one’s PeCS in consumer electronics Servicing.</p>	<p>The learner recognizes his/her PeCS and prepares an activity plan that aligns with the PeCS of a practitioner/entrepreneur in consumer electronics Servicing.</p>	<p>LO 1. Recognize Personal Entrepreneurial Competencies and Skills (PeCS) needed in Consumer electronics Servicing</p> <ol style="list-style-type: none"> 1.1 Assess one’s PeCS: characteristics, attributes, lifestyle, skills, traits 1.2 Assess practitioner’s: characteristics, attributes, lifestyle, skills, traits 1.3 Compare one’s PeCS with those of a practitioner /entrepreneur 1.4 Align one’s PeCS with those of a practitioner/entrepreneur 	TLE_PECS9-Ik-1

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
ENVIRONMENT AND MARKET (EM)				
Market (Town) 1. Key concepts of Market 2. Players in the Market (Competitors) 3. Products & services available in the market	The learner demonstrates an understanding of the concepts environment and market in the consumer electronics servicing field, particularly in one's town/municipality.	The learner independently creates a business vicinity map reflective of the potential consumer electronics servicing market within the locality/town.	LO 1. Recognize and understand the market in consumer electronics servicing 1.1 Identify the players/ competitors within the town 1.2 Identify the different products/services available in the market	TLE_EM9-Ik-1
Market (Customer) 4. Key concepts of Identifying and Understanding the Consumer 5. Consumer Analysis through: 5.1 Observation 5.2 Interviews 5.3 Focus group discussion (FGD) 5.4 Survey			LO 2. Recognize the potential customer/market in Consumer electronics Servicing 2.1 Identify profile of potential customers 2.2 Identify the customer's needs and wants through consumer analysis 2.3 Conduct consumer/market analysis	TLEEM9-IIk-2
6. Generating Business Idea 6.1 Key concepts of Generating Business Ideas 6.2 Knowledge & Skills, Passions, Interests 6.3 New application 6.4 Irritants 6.5 Striking ideas (new concept) 6.7 Serendipity Walk			LO 3. Create new business ideas in Consumer electronics Servicing. business by using various techniques 3.1 Explore ways of generating business ideas from one's own characteristics/attributes 3.2 Generate business ideas using product innovation from irritants, trends and emerging needs 3.3 Generate business ideas using Serendipity Walk	TLE_EM9-IIIk-IVk-3

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
ASSEMBLE AND DISASSEMBLE CONSUMER ELECTRONIC PRODUCT AND SYSTEM (40) (AD)				
AC/DC Power Supply 1. Tools, equipment and materials 2. OH&S policies and procedure	The learner demonstrates an understanding of the principles in AC/DC power supply.	The learner independently assembles AC/DC power supply in accordance with manufacturer's specification.	LO 1. Prepare Tools And Materials For Assembly 1.1 Check required tools, equipment and materials 1.2 Prepare tools and materials according to job requirements	TLE_IAES9AD-Ia-e-1
3. Soldering and Soldering processes			LO 2. Solder/ Desolder Components To The Board 3.1 Perform soldering and desoldering processes 3.2 Check soldered products in accordance with quality standards	TLE_IAES9-If-j-2
4. Assembling and disassembling processes			LO 3. Assemble/ Disassemble Boards 4.1 Perform assembling and disassembling processes 4.2 Observe safety procedure in assembling and disassembling boards 4.3 Check assembled product in accordance with quality standards	TLE_IAES9AD-IIa-e-3
5. Techniques on actual product assembly based on service manuals 6. Product quality standards based on service manual			LO 4. Test And Inspect Assembled Products 4.1 Test finished products in accordance with standard operating procedure 4.2 Document completed work 4.3 Perform proper housekeeping (5S)	TLE_IAES9AD-IIf-j-4

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
MAINTAIN AND REPAIR ELECTRONICALLY CONTROLLED DOMESTIC APPLIANCES (80) (MR)				
<p>Servicing electronically-controlled domestic appliances with motor and with heating elements</p> <ol style="list-style-type: none"> 1. Electronically-controlled domestic appliances 2. Service manuals 3. Tools, materials and test instruments 	<p>The learner demonstrates an understanding of the concepts in maintaining and repairing appliances with motor and with heating element:</p> <ol style="list-style-type: none"> 1. blender 2. electric fan 	<p>The learner independently maintains and repairs appliances with motor and with heating element:</p> <ol style="list-style-type: none"> 1. blender 2. electric fan 	<p>LO 1. Prepare Unit, Tools, Equipment And Workplace For Maintenance/Repair</p> <ol style="list-style-type: none"> 1.1 Prepare necessary tools, test instruments and personal protective equipment in line with job requirements 1.2 Acquire service manuals and service information required for repair/maintenance as manufacturer’s specifications 1.3 Conduct complete check-up of electronically-controlled domestic appliances 1.4 Document the identified defects based on check-up conducted 	<p>TLE_IAES9MR-IIIa-j-</p>
<ol style="list-style-type: none"> 4. Pre-testing procedure in accordance with the manufacturer’s manual 5. Steps in testing components 6. Responsible persons 			<p>LO 2. Diagnose faults of electronically-controlled domestic appliances.</p> <ol style="list-style-type: none"> 2.1 Observe systematic pre-testing procedure in accordance with manufacturer’s instructions 2.2 Check and isolate circuits using specified testing procedure 2.3 Document results of diagnosis and testing accurately and completely within the specified timeframe 2.4 Explain identified defects and faults based on the result of diagnosis and testing 2.5 Provide data/information regarding the status and serviceability of the unit as per procedure 	<p>TLE_IAES9MR-IIIa-j-2</p>
<ol style="list-style-type: none"> 7. Personal protective equipment (PPE) 8. Troubles and possible remedies 9. Soldering and desoldering 			<p>LO 3. Maintain/Repair Appliances</p> <ol style="list-style-type: none"> 3.1 Use PPE in accordance with OHS practices 3.2 Perform repair activity within the required timeframe 3.3 Observe safety precautions in handling the 	<p>TLE_IAES9MR-IVa-e-3</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
process 10. Care and extreme precaution in handling the unit/product as per procedure			unit/product as per standard operating procedure 3.4 Replace defective parts/ components with identical or recommended appropriate equivalent ratings 3.5 Solder/mount repaired or replaced parts/components in accordance with industry standards 3.6 Clean unit in accordance with standard operating procedure	
11. Procedure of reassembling repaired units according to procedure			LO 4. Reassemble And Test Repaired Appliances 4.1 Perform final test for reassembled units in conformity with manufacturer's specifications	TLE_IAES9MR-IVf-j-4

**K to 12 BASIC EDUCATION CURRICULUM
TECHNOLOGY AND LIVELIHOOD EDUCATION
Grade 10 (Specialization)**

Course Description:

Prerequisite: Grade 9 Consumer Electronics Servicing

This is a standards based curriculum leading to a TESDA Qualification Standard for a **Consumer electronics Servicing** National Certificate Level I (N II). It covers the core competency of maintaining and repairing electronically-controlled domestic appliances that the Grade 10 student should acquire.

The preliminaries of this course include the following: (1) discussion on the relevance of the course, (2) explanation of key concepts relative to the course, and (3) exploration of career opportunities.

CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
<p>Introduction:</p> <ol style="list-style-type: none"> 1. Core concepts in Electronics Servicing 2. Relevance of the course 3. Employment /business opportunities 	<p>The learner demonstrates an understanding of the basic concepts and underlying theories in consumer electronics servicing.</p>	<p>The learner independently demonstrates an understanding of the core competency in electronics servicing as prescribed by TESDA Training Regulations.</p>	<ol style="list-style-type: none"> 1. Explain core concepts in electronics servicing 2. Discuss relevance of the course 3. Explore opportunities for employment/business 	
PERSONAL ENTREPRENEURIAL COMPETENCIES (PeCS)				
<ol style="list-style-type: none"> 1. Assessment of learner's Personal Competencies and Skills (PeCS) vis-à-vis PeCS of a practicing entrepreneur/employee in a province. <ol style="list-style-type: none"> 1.1 Characteristics 1.2 Attributes 1.3 Lifestyle 1.4 Skills 1.5 Traits 2. Analysis of PeCS compared to the PeCS of a practitioner 3. Strengthening and further development of one's PeCS 	<p>The learner demonstrates an understanding of one's Personal Competencies and Skills (PeCS) in Consumer Electronics Servicing.</p>	<p>The learner independently creates a plan of action that strengthens/ further develops one's PeCS in Consumer Electronics Servicing.</p>	<p>LO 1. Develop and strengthen personal competencies and skills (PeCS) needed Consumer Electronics Servicing</p> <ol style="list-style-type: none"> 1.1 Identify areas for improvement, development and growth 1.2 Align one's PeCS according to his/her business/career choice 1.3 Create a plan of action that ensures success of his/her business/career choice 	<p>TLE_PECS10-Ik-8</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
ENVIRONMENT AND MARKET (EM)				
1. Product Development 2. Key concepts of developing a product 3. Finding Value 4. Innovation 4.1 Unique Selling 4.2 Proposition (USP)	The learner demonstrates an understanding of environment and market in Consumer Electronics Servicing in one's town/municipality.	The learner independently creates a business vicinity map reflective of the potential Consumer Electronics Servicing market within the locality/town.	LO 1. Develop a product/ service in Consumer Electronics Servicing 1.1 Identify what is of "Value" to the customer 1.2 Identify the customer 1.3 Explain what makes a product unique and competitive 1.4 Apply creative and innovative techniques to develop marketable product 1.5 Employ a Unique Selling Proposition (USP) to the product/service	TLE_EM10-Ik-IIk-1
5. Selecting a Business Idea 6. Key concepts in Selecting a Business Idea 6.1 Criteria 6.2 Techniques			LO 2. Select a business idea based on the criteria and techniques set 2.1 Enumerate various criteria and steps in selecting a business idea 2.2 Apply the criteria/steps in selecting a viable business idea 2.3 Determine a business idea based on the criteria/techniques set	TLE_EM10-IIIk-2
7. Branding			LO 3. Develop a brand for the product 3.1 Identify the benefits of having a good brand 3.2 Enumerate recognizable brands in the town/province 3.3 Enumerate the criteria for developing a brand 3.4 Generate a clear appealing product brand	TLE_EM10-IVk-3

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
MAINTAIN AND REPAIR ELECTRONICALLY CONTROLLED DOMESTIC APPLIANCES (80) MR				
<p>Servicing electronically-controlled domestic appliances with motor and with heating elements</p> <ol style="list-style-type: none"> 1. Electronically controlled domestic appliances 2. Service manuals 3. Tools, materials and test instruments 	<p>The learner demonstrates an understanding of the concepts in maintaining and repairing appliances with motor and with a heating element:</p> <ol style="list-style-type: none"> 1. washing machine 2. flat iron 3. microwave oven 4. rice cooker 	<p>The learner independently maintains and repairs appliances with motor and with a heating element:</p> <ol style="list-style-type: none"> 1. washing machine 2. flat iron 3. microwave oven 4. rice cooker 	<p>LO1. Prepare unit, tools, equipment and workplace for maintenance/repair</p> <ol style="list-style-type: none"> 1.1 Prepare necessary tools, test instruments and personal protective equipment in line with job requirements 1.2 Acquire service manuals and service information required for repair/maintenance as manufacturer's specifications 1.3 Conduct complete check-up of electronically-controlled domestic appliances 1.4 Document the identified defects based on check-up conducted 	<p>LE_IAES10MR-Ia-j-1</p>
<ol style="list-style-type: none"> 4. Pre-testing procedure in accordance with the manufacturer's manual. 5. Steps in testing components 6. Responsible persons 			<p>LO2. Diagnose faults of electronically-controlled domestic appliances.</p> <ol style="list-style-type: none"> 2.1 Observe systematic pre-testing procedure in accordance with manufacturer's instructions 2.2 Check and isolate circuits using specified testing procedure 2.3 Document results of diagnosis and testing accurately and completely within the specified timeframe 2.4 Explain identified defects and faults based on the result of diagnosis and testing 2.5 Provide data/information regarding the status and serviceability of the unit as per procedure 	<p>TLE_IAES10MR-Ia-j-2</p>

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CONTENT	CONTENT STANDARD	PERFORMANCE STANDARD	LEARNING COMPETENCIES	CODE
7. Personal protective equipment (PPE) 8. Troubles and possible remedies 9. Soldering and desoldering process 10. Care and extreme precaution in handling the unit/product as per procedure			LO3 Maintain/Repair Appliances 3.1 Use PPE in accordance with OHS practices 3.2 Perform repair activity within the required timeframe 3.3 Observe safety precautions in handling the unit/product as per standard operating procedure 3.4 Replace defective parts/ components with identical parts or recommended parts with equivalent ratings 3.5 Solder/mount repaired or replaced parts/components in accordance with industry standards 3.6 Clean unit in accordance with standard operating procedure	TLE_IAES10MR-IIa-IVj-3
11. Procedure of reassembling repaired units according to procedure			LO4 Reassemble and test repaired appliances 4.1 Perform final test for reassembled units in conformity with manufacturer's specifications	TLE_IAES10MR-IIa-IVj-4

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GLOSSARY**

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TECHNOLOGY AND LIVELIHOOD EDUCATION
Code Book Legend**

Sample: TLE_PECS7/8-0k-1

LEGEND		SAMPLE	
First Entry	Learning Area and Strand/ Subject or Specialization	Technology and Livelihood Education_Industrial Arts Consumer Electronics Servicing	TLE_PE CS 7/8
	Grade Level	Grade 7/8	
Uppercase Letter/s	Domain/Content/ Component/ Topic	Personal Entrepreneurial Competencies and Skills	PECS
			-
Roman Numeral <i>*Zero if no specific quarter</i>	Quarter	No Specific Quarter	0
Lowercase Letter/s <i>*Put a hyphen (-) in between letters to indicate more than a specific week</i>	Week	Week Eleven	k
			-
Arabic Number	Competency	Recognize PECS needed in consumer electronics servicing	1

DOMAIN/ COMPONENT	CODE
Personal Entrepreneurial Skills	PECS
Environment and Marketing	EM
Use and Maintain Tools and Equipment	UT
Perform Estimation and Basic Calculation	MC
Interpret Plans and Drawings	ID
Maintain Hand Tools and Equipment	MT
Practice Health and Safety Procedure	OS
Assemble and Disassemble Consumer Electronic Product and System	AD
Maintain and Repair Electronically Controlled Domestic Appliances	MR