



Department of Education



EPP/TLE

GRADE LEVEL: 4
SUBJECT: EPP
QUARTER: 1-4

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATI ON	K-12 CG Code
ENTREP/IC T	<i>Ang mag-aaral ay...</i> naipamamalas ang pang-unawa sa konsepto ng “entrepreneurship”	<i>Ang mag-aaral ay...</i> naipaliliwanag ang mga batayang konsepto ng pagnenegosyo	1.1 naipaliliwanag ang kahulugan at kahalagahan ng “entrepreneurship” 1.2 natatalakay ang mga katangian ng isang entrepreneur 1.3 natatalakay ang iba’t-ibang uri ng negosyo	3 WEEKS	EPP4IE-0a-1 EPP4IE-0a-2 EPP4IE-0b-4
	naipamamalas ang kaalaman at kakayahan sa paggamit ng computer, Internet, at email sa ligtas at responsableng pamamaraan	nakagagamit ng computer, Internet, at email sa ligtas at responsableng pamamaraan	1.1 naipaliliwanag ang mga panuntunan sa paggamit ng computer, Internet, at email 1.2 natatalakay ang mga panganib na dulot ng mga di-kanais-nais na mga software (virus at malware), mga nilalaman, at mga pag-asal sa Internet 1.3 nagagamit ang computer, Internet, at email sa ligtas at responsableng pamamaraan 1.4 naipaliliwanag ang kaalaman sa paggamit ng computer at Internet bilang mapagkukunan ng iba’t ibang uri ng impormasyon	2 WEEKS	EPP4IE -0c-5 EPP4IE -0c-6 EPP4IE-0d-7 EPP4IE-0d-8
	naipamamalas ang kaalaman at	nakagagamit ng computer at Internet sa	1.1 nagagamit ang computer file system	2 WEEKS	EPP4IE-0e-9

	kasanayan sa computer at Internet sa pangangalap at pagsasaayos ng impormasyon	pangangalap at pagsasaayos ng impormasyon	<p>1.2 nagagamit ang web browser at ang basic features ng isang search engine sa pangangalap ng impormasyon</p> <p>1.3 nakagagawa ng table at tsart gamit ang word processing</p> <p>1.4 nakagagawa ng table at tsart gamit ang electronic spreadsheet tool</p> <p>1.5 nakakapag-sort at filter ng impormasyon gamit ang electronic spreadsheet tool</p>		<p>EPP4IE-0e-10</p> <p>EPP4IE-0g-13</p> <p>EPP4IE -0h-15</p>
	naipakikita ang kaalaman at kasanayan sa paggamit ng	nakagagamit ng email	<p>1.1 nakasasagot sa email ng iba</p> <p>1.2 nakapagpapadala ng email na may kalakip na dokumento o iba pang media file</p> <p>1.3 nakaguguhit gamit ang drawing tool o graphics software</p> <p>1.4 nakakapag-edit ng photo gamit ang basic photo editing tool</p> <p>1.5 nakagagawa ng dokumento na may picture gamit ang word processing tool desktop publishing tool</p> <p>1.5nakagagawa ng maikling report na may kasamang mga table, tsart, at photo o drawing gamit ang iba't ibang tools na nakasanayan</p>	1 WEEK	<p>EPP4IE -0h-17</p> <p>EPP4IE -0i-18</p> <p>EPP4IE -0i-19</p> <p>EPP4IE -0j-21</p> <p>EPP4IE -0j-22</p>

AGRICULT URE	naipamamalas ang pang-unawa sa kaalaman at kasanayan sa pagtatanim ng halamang ornamental bilang isang gawaing pagkakakitaan	naisasagawa ang pagtatanim, pag-aani, at pagsasapamilihan ng halamang ornamental sa masistemang pamamaraan	1.1 naisasagawa ang mga kasanayan at kaalaman sa pagtatanim ng halamang ornamental bilang isang pagkakakitaang gawain 1.2 natatalakay ang pakinabang sa pagtatanim ng halamang ornamental, para sa pamilya at sa pamayanan	2 WEEKS	EPP4AG-0a-1 EPP4AG-0a-2
			L.O. 1 naipakikita ang wastong pamamaraan sa pagpapatubo/ pagtatanim ng halamang ornamental 1.4.1 pagpili ng itatanim. 1.4.2 paggawa/ paghahanda ng taniman. 1.4.3 paghahanda ng mga itatanim o patutubuin at itatanim 1.4.8 pagtatanim ayon sa wastong pamamaraan	3 WEEKS	EPP4AG-0d-6
			1.8 naisasagawa ang masistemang pangangalaga ng tanim 1.8.1 pagdidilig, pagbubungkal ng lupa, paglalagay ng abono, paggawa ng abonong organiko atbp 2.1 naisasagawa ang wastong pag-aani/ pagsasapamilihan ng mga halamang ornamental	3 WEEKS	EPP4AG-0e-8 EPP4AG-0f-10

	naipamamalas ang pang-unawa sa panimulang kaalaman at kasanayan sa pag-aalaga ng hayop sa tahanan at ang maitutulong nito sa pag-unlad ng pamumuhay	naisasagawa ng ma kawilihan ang pag-aalaga sa hayop sa tahanan bilang mapagkakakitaang gawain	<p>L.O. 1 natatalakay ang kabutihang dulot ng pag-aalaga ng hayop sa tahanan</p> <p>1.1 natutukoy ang mga hayop na maaaring alagaan sa tahanan.</p> <p>L.O. 2 naiisa-isa ang wastong pamamaraan sa pag -aalaga ng hayop</p> <p>2.1.1 pagsasagawa nang maayos na pag-aalaga ng hayop</p> <p>2.1.2 pagbibigay ng wastong lugar o tirahan</p> <p>2.1.3 pagpapakain at paglilinis ng tirahan</p>	1 WEEK	<p>EPP4AG-0h-15</p> <p>EPP4AG-0h-16</p> <p>EPP4AG-0h-17</p>
HOME ECONOMICS	naipamamalas ang pang-unawa sa batayang konsepto ng “gawaing pantahanan” at ang maitutulong nito sa pag-unlad ng sarili at tahanan	naisasagawa ng may kasanayan ang mga gawaing pantahanan na makatutulong sa pangangalaga ng pansarili at ng sariling tahanan	<p>1.1.napangangalagaan ang sariling kasuotan.</p> <p>1.2.naiisa-isa ang mga paraan ng pagpapanatiling malinis ng kasuotan</p> <p>1.2.1. nasasabi ang gamit ng mga kagamitan sa pananahi sa kamay</p> <p>1.2.2. naisasaayos ang payak na sira ng kasuotan sa pamamagitan ng pananahi sa kamay (hal. pagkabit ng butones)</p>	3 WEEKS	EPP4HE-0b-3

			<p>1.1 naisasagawa ang wastong paraan ng paglilinis ng bahay at bakuran</p> <p>1.2 naisasagawa ang wastong paghihiwalay ng basura sa bahay</p>	2 WEEKS	<p>EPP4HE-0f-9</p> <p>EPP4HE-0g-10</p>
			<p>1.1 nakatutulong sa paghahanda ng masustansiyang pagkain.</p> <p>1.2 naipakikita ang wastong paraan ng paggamit ng kubyertos</p> <p>1.3 naisasagawa nang may sistema ang pagliligpit at paghuhugas ng pinagkainan</p>	3 WEEKS	EPP4HE-0i-14
INDUSTRIAL ARTS	naipapamalas ang pang-unawa sa batayang kaalaman at kasanayan sa pagsusukat sa pagbuo ng mga kapakipakinabang na gawaing pang-industriya at ang maitutulong nito sa pag-unlad ng isang pamayanan	naisasagawa nang may kasanayan sa pagsusukat at pagpapahalaga sa mga batayang gawain sa sining pang-industriya na makapagpapaunlad sa kabuhayan ng sariling pamayanan	<p>1.1 Natatalakay ang mga kaalaman at kasanayan sa pagsusukat</p> <p>1.1.1 nakikilala ang mga kagamitan sa pagsusukat</p> <p>1.1.2 nagagamit ang dalawang sistemang panukat (English at metric)</p> <p>1.2 naisasagawa ang pagleletra, pagbuo ng linya at pagguhit.</p> <p>1.3 natatalakay ang kahalagahan ng kaalaman at kasanayan sa</p>	3 WEEKS	<p>EPP4IA-0a-1</p> <p>EPP4IA-0b-2</p> <p>EPP4IA-0c-3</p>

			"basic sketching" shading at outlining 1.4 naisasagawa ang wastong pamamaraan ng basicsketching, shading at outlining		EPP4IA-Od-4
			2.1 nakagagawa ng sariling disenyo sa pagbuo o pagbabago ng produktong gawa sa kahoy, ceramics, karton, o lata (o mga materyales na nakukuha sa pamayanan)	6 WEEKS	EPP4IA-Of-6

GRADE LEVEL: 5

SUBJECT: EPP

QUARTER: 1-4

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
ENTREP/IC T	naipamamalas ang kaalaman at kasanayan upang maging matagumpay na entrepreneur	mapahusay ang isang produkto upang maging iba sa iba	1.1 naipaliliwanag ang kahulugan at pagkakaiba ng produkto at serbisyo 1.2 natutukoy ang mga taong nangangailangan ng angkop na produkto at serbisyo 1.3 nakapagbebenta ng natatanging paninda	WEEKS 5WEEKS 1 WEEK	EPP5IE-0a-2 EPP5IE - 0a-3 EPP5IE-0b-5
	naipamamalas ang kaalaman at kasanayan ng	1. nakapamamahagi ng mga dokumento at media file sa ligtas at	1.1 naipaliliwanag ang mga panuntunan sa pagsali sa discussion forum at chat 1.2 nakasasali sa discussion forum		

	<p>ligtas at responsible sa:</p> <ol style="list-style-type: none"> 1. pamamahagi ng mga dokumento at media file 2. pagsali sa discussion group at chat 	<p>responsableng pamamaraan</p> <ol style="list-style-type: none"> 2. nakasali sa discussion group at chat sa ligtas at responsableng pamamaraan 	<p>at chat sa ligtas at responsableng pamamaraan</p>		<p>EPP5IE-0c-8</p> <p>EPP5IE-0c-9</p>
			<ol style="list-style-type: none"> 1.2 natutukoy ang angkop na search engine sa pangangalap ng impormasyon 1.3 nakagagamit ng mga basic function at formula sa electronic spreadsheet upang malagom ang datos 1.4 nagagamit ang word processing tool 	1 WEEK	<p>EPP5IE-0d-11</p> <p>EPP5IE-0f-16</p> <p>EPP5IE-0j-21</p>
AGRICULTURE	<p>naipamamalas ang pang-unawa sa panimulang kaalaman at</p>	<p>naisasagawa nang maayos ang pagtanim, pag-aani, at pagsasapamilihan ng</p>	<ol style="list-style-type: none"> 1.1 nakagagawa ng abonong organiko 1.4.1 natatalakay ang kahalagahan at pamamaraan sa paggawa 	2 WEEKS	EPP5AG-0b-4

	kasanayan sa pagtatanim ng gulay at ang maitutulong nito sa pag-unlad ng pamumuhay	gulay sa masistemang pamamaraan	ng abonong organiko 1.4.2 nasusunod ang mga pamamaraan at pag-iingat sa paggawa ng abonong organiko		
			1.2 naisasagawa ang masistemang pangangalaga ng tanim na mga gulay 1.5.1 pagdidilig 1.5.2 pagbubungkal 1.5.3 paglalagay ng abonong organiko 1.3 naisasagawa ang masistemang pagsugpo ng peste at kulisap ng mga halaman	2 WEEKS	EPP5AG-0c-6
			1.1 naipaliliwanag ang kabutihang dulot ng pag-aalaga ng hayop na may dalawang paa at pakpak o isda 1.2 natutukoy ang mga hayop na maaring alagaan gaya ng manok, pato, itik, pugo/ tilapia 1.3 nakagagawa ng talaan ng mga kagamitan at kasangkapan na dapat ihanda upang makapagsimula sa pag-aalaga ng hayop o isda	1 WEEK	EPP5AG-0e-11 EPP5AG-0g-15 EPP5AG-0h-16
			1.1 naisasapamilihan ang inalagaang hayop/isda	3 WEEKS	EPP5AG-0j-18

			1.2 natutuos ang puhunan, gastos, at kita		
HOME ECONOMI CS	naipamamalas ang pang-unawa sa kaalaman at kasanayan sa mga “gawaing pantahanan” at tungkulin at pangangalaga sa sarili	naisasagawa ang kasanayan sa pangangalaga sa sarili at gawaing pantahanan na nakatutulong sa pagsasaayos ng tahanan	1.1 napangangalagaan ang sariling kasuotan 1.1.1 naiisa-isa ang mga paraan upang mapanatiling malinis ang kasuotan 1.2 naisasagawa ang wastong paraan ng paglalaba 1.2.1 napaghihiwalay ang puti at di-kulay 1.7 naisasagawa ang wastong paraan ngpamamalantsa	4 WEEKS	EPP5HE-0c-6 EPP5HE-0c-7 EPP5HE-0d-8
			1.1 nakagagamit ng makina at kamay sa pagbuo ng mga kagamitang pambahay 1.2 natutukoy ang mga bahagi ng makinang de-padyak 1.3 nakabubuo ng kagamitangpambahay na maaaring pagkakitaan 1.4 nakalilikha ng isang malikhaing proyekto	3 WEEKS	EPP5HE-0f-17 EPP5HE-0g-18
			1.1naisasagawa ang pagpaplano at pagluluto ng masustansiyang pagkain (almusal, tanghalian, at hapunan) ayon sa badyet ng pamilya 1.2naisasagawa ang pamamalengke	2 WEEKS	EPP5HE-0i-24 EPP5HE-0i-28

			ng mga sangkap sa pagluluto 1.3naipakikita ang husay sa pagpili ng sariwa, mura at masustansyang sangkap		
			Naisasagawa ang pagluluto 1.1naihahanda ang mga sangkap sa pagluluto 1.2nasmusod ang mga tuntuning pangkalusugan at pangkaligtasan sa paghahanda at pagluluto ng pagkain 1.3 naihahanda nang kaakit-akit ang nilutong pagkain sa hapag kainan (food presentation)		EPP5HE-0j-29
INDUSTRIAL ARTS	naipamamalas ang pagkatuto sa mga kaalaman at kasanayan sa mga gawaing pang-industriya tulad ng gawaing kahoy, metal, kawayan, elektrisidad at iba pa	naisasagawa ng may kawilihan ng pagbuo ng mga proyekto sa gawaing kahoy, metal, kawayan, elektrisidad, at iba pa	1.1 natatalakay ang mga mahalagang kaalaman at kasanayan sa gawaing kahoy, metal, kawayan at iba pang lokal na materyales sa pamayanan 1.2 nakagagawa ng mga malikhaing proyekto na gawa sa kahoy, metal, kawayan at iba pang materyales na makikita sa kumunidad	3 WEEKS	EPP5IA-0a-1 EPP5IA-0b-2
			2.1 nakagagawa ng proyekto na ginagamitan ng elektrisidad 2.2 natatalakay ang mga kaalaman at kasanayan sa gawaing elektrisidad	3 WEEKS	EPP5IA-0c-3

			2.3 nakabubuo ng plano ng proyekto na nakadisenyo mula sa ibat-ibang materyales na makikita sa pamayanan (hal., kahoy, metal, kawayan, atbp) na ginagamitan ng elektrisidad na maaaring mapapagkakakitaan	3 WEEKS	EPP5IA-0d- 4

GRADE LEVEL: 6

SUBJECT: TECHNOLOGY AND LIVELIHOOD EDUCATION

COMPONENT: ICT AND ENTREPRENEURSHIP

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
0	demonstrates knowledge and skills that will lead to one becoming an ideal entrepreneur	sells products based on needs and demands	produces simple products	Weeks 1-2	TLEIE6-0a-2
			buys and sells products based on needs		TLEIE6-0b-3
			sells products based on needs and demands in school and community		TLEIE6-0b-4
	demonstrates knowledge and skills in the safe and responsible use of wikis, blogs, and audio and video conferencing tools	practices safe and responsible use of wikis, blogs, and audio and video conferencing tools	posts and shares materials on wikis in a safe and responsible manner	Week 3	TLEIE6-0c-5
			posts and shares materials on blogs in a safe and responsible manner		TLEIE6-0c-6
			participates in video and audio conferences in a safe and responsible manner	Week 4	TLEIE6-0d-7
	demonstrates knowledge and skills in using online survey tools	conducts a survey using online tools	creates an online survey form	Week 5	TLEIE6-0e-9
			processes online survey data		TLEIE6-0f-11
	demonstrates knowledge and skills in performing advanced calculations on numerical data using an electronic spreadsheet tool	processes and summarizes numerical data using advanced functions and formulas in an electronic spreadsheet tool	uses functions and formulas in an electronic spreadsheet tool to perform advanced calculations on numerical data	Week 6	TLEIE6-0f-12
	demonstrates knowledge and skills in using audio, video conferencing tools, and e-group	communicates and collaborates online through audio, video conferencing, and egroup	uses audio and video conferencing tools to share ideas and work with others online	Week 7	TLEIE6-0g-13
uses an e-group to share ideas and work with others			TLEIE6-0h-14		
		uses the advanced features of a slide presentation tool to create a		TLEIE6-0i-15	

	demonstrates knowledge and skills to create knowledge products	creates a multimedia knowledge product	multimedia presentation with text, graphics, and photos; hyperlinked elements; animation; and embedded audio and/or video	Week 8	
			uses the moviemaking software to create a multimedia presentation		TLEIE6-0j-16

GRADE LEVEL: 6

SUBJECT: TECHNOLOGY AND LIVELIHOOD EDUCATION

COMPONENT: AGRICULTURE

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION
0	demonstrates an understanding of scientific practices in planting trees and fruit trees	applies knowledge and skills in planting trees and fruit trees	discusses the importance of planting and propagating trees and fruit-bearing trees and marketing seedlings.	Week 1
			uses technology in the conduct of survey to find out the following:	Week 2
			elements to be observed in planting trees and fruit-bearing trees	
			market demands for fruits	
			famous orchard farms in the country	Week 3
			conduct a survey to identify:	
			types of orchard farms	
trees appropriate for orchard gardening based on location, climate, and market demands				

			proper way of planting/propagating trees and fruit-bearing trees (budding, marcotting, grafting)		
			sources of fruit-bearing trees		
			how to care for seedlings		
			prepares layout design of an orchard garden using the information gathered		
			propagates trees and fruit-bearing trees using scientific processes		
				identifies the appropriate tools and equipment in plant propagation and their uses	Week 4
				demonstrates scientific ways of propagating fruit-bearing trees	
				observes healthy and safety measures in propagating fruit-bearing trees	
				performs systematic and scientific ways of caring orchard trees/ seedlings such as watering, cultivating, preparing, and applying organic fertilizer	Week 5
				markets fruits and seedlings	Week 6
develops plan for expansion of planting trees and seedling production					
demonstrates an understanding of scientific processes in animal/ fish raising	applies knowledge and skills, and develops one's interest in animal/ fish raising		conducts survey to find out:		
			persons in the community whose occupation is animal (four-legged) /fish raising		

			kinds of four-legged animals/fish being raised as means of livelihood	Week 7
			possible hazards that animal raising can cause to the people and community	
			ways to prevent hazards brought about by raising animals	
			market demands for animal/fish products and byproducts	
			direct consumers or retailers	
			benefits that can be derived from animal/fish raising	Week 8
			stories of successful entrepreneurs in animal/fish raising	
			plans for the family's animal raising project	
			implements plan on animal/fish raising	
			monitors growth and progress	
			keeps an updated record of growth/progress	
			expands/enhances one's knowledge of animal/fish raising using the Internet	Week 9
			manages marketing of animal/fish raised	
			discusses indicators for harvesting/capturing	
			demonstrates skill in harvesting/capturing animal/fish	

			prepares marketing strategy by asking help from others or using the Internet	
			markets animals/fish harvested/captured	
			computes the income earned from marketed products (Gross Sale – Expenses = Net income)	
			prepares plans for expansion of animal-raising venture	

GRADE LEVEL: 6

SUBJECT: TECHNOLOGY AND LIVELIHOOD EDUCATION

COMPONENT: HOME ECONOMICS

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION
0	applies knowledge and skills, and develops one's interest in animal/fish raising	manages family resources applying the principles of home management	identifies family resources and needs (human, material, and nonmaterial)	Week 1
			enumerates sources of family income	
			allocates budget for basic and social need such as: <ul style="list-style-type: none"> 1.1.1 food and clothing 1.1.2 shelter and education 1.1.3 social needs: social and moral obligations (birthdays, baptisms, etc.), family activities, school affairs savings/emergency budget (health, house repair)	
			1.2 prepares feasible and practical budget <ul style="list-style-type: none"> 1.2.1 manages family resources 	Week 2

			efficiently 1.2.2 prioritizes needs over wants	
demonstrates an understanding of and skills in sewing household linens	sews household linens using appropriate tools and materials and applying		classifies tools and materials according to their use (measuring, cutting, sewing)	
			prepares project plan for household linens	Week 3
			identifies supplies/ materials and tools needed for the project	
			2.1 drafts pattern for household linens 2.1.1 steps in drafting pattern 2.1.2 safety precautions	Week 4
			2.2 sews creative and marketable household linens as means to augment family income 2.3 assesses the finished products as to the quality (using rubrics	
			2.4 markets finished house hold linens in varied/ creative ways	TLE6HE0e-10 Week 5
demonstrates an understanding of and skills in the basics of food preservation	preserve food/s using appropriate tools and materials and applying the basics of food		explains different ways of food preservation (drying, salting, freezing, and processing)	Week 6
			uses the tools/utensils and equipment and their substitutes in food preservation/ processing	
			preserves food applying principles and skills in food preservation processing	

			conducts simple research to determine market trends and demands in preserved/ processed foods	Week 7
			assesses preserved/processed food as to the quality using the rubrics	
			markets preserved/processed food in varied/ creative ways with pride	Week 8

GRADE LEVEL: 6

SUBJECT: TECHNOLOGY AND LIVELIHOOD EDUCATION

COMPONENT: INDUSTRIAL ARTS

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION
0	demonstrates an understanding of knowledge and skills in enhancing/decorating products as an alternative source of income	performs necessary skill in enhancing/ decorating finished products	discusses the importance and methods of enhancing/decorating bamboo, wood, and metal products	Weeks 1-2
			demonstrates creativity and innovativeness in enhancing/ decorating bamboo, wood, and metal products	
			1.1 conducts simple survey using technology and other data-gathering method to determine 1.1.1 market trends on products made of bamboo, wood, and metal 1.1.2 customer's preference of products	

			<p>1.1.3 types/sources of innovative finishing materials, accessories, and designs</p> <p>1.1.4 processes in enhancing/decorating finished products</p>	
			discusses the effects of innovative finishing materials and creative accessories on the marketability of products	Week 3
			enhances bamboo, wood, metal, and other finished products through sketching, shading, and outlining	
			<p>1.6 constructs project plan</p> <p>1.6.1 considers deliberate policies on sustainable development in constructing the project plan</p> <p>1.6.2 demonstrates resourcefulness and management skills in the use of time, materials, money, and effort</p> <p>1.6.3 assesses the quality of enhanced product using rubrics</p> <p>1.6.4 refines product based on assessment made</p>	Weeks 4-5

			markets products	
	demonstrates an understanding of and skills in making simple electrical gadgets	constructs simple electrical gadgets with ease and dexterity	construct simple electrical gadgets	Week 6
			explains the protocols (processes) in making electrical gadgets	
	demonstrates an understanding of and skills in recycling waste material	recycles waste materials following the principles of “five S”	repairs simple gadgets/furniture/ furnishings at home and school	Week 7
			1.2 discusses the principles of “five S” 1.2.1 Sorting (Seiri) 1.2.2 Straightening (Seiton) 1.2.3 Systematic Cleaning (Shine) (Seiso) 1.2.4 Standardizing (Seiketsu) 4.1.5 Service (Sustaining) (Shitsuke)	
			identifies recyclable products/waste materials made of wood, metal, paper, plastic, and others	Weeks 8-9
			explains the process and the importance of recycling	
			recycles the identified products/waste material into functional items (binding of used paper into notebook or memo pad; bottled plastic into lampshades, flowers, plants; etc.)	

GRADE LEVEL: 7/8

SUBJECT: TECHNOLOGY AND LIVELIHOOD EDUCATION

COMPONENT: AGRICULTURE AND FISHERY ARTS (Animal Production [Poultry, Swine and Ruminants]) (40 hours)

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
0	The learners demonstrate an understanding of the underlying theories in participating in workplace communication	The learners shall be able to participate in workplace communication based on DOLE and industry standards	LO 1. Obtain and convey workplace information 1.1 Access specific relevant information is from appropriate sources 1.2 Use effective questioning and active listening and speaking to gather and convey information 1.3 Use appropriate medium to transfer information and ideas 1.4 Use appropriate nonverbal communication 1.5 Identify appropriate lines of communication with superiors and colleagues 1.6 Define work procedures for the location and storage of information 1.7 Carry out personnel interaction clearly and concisely	Week 1	
			LO 2. Participate in workplace meeting and discussion 2.1 Attend team meetings on time 2.2 Express own opinions and listen to those of others 2.3 Conduct workplace interaction courteously while being mindful of cultural considerations		

			<p>2.4 Ask and respond to questions on simple routine workplace procedures and matters concerning conditions of employment</p> <p>2.5 Interpret and implement meeting outcomes</p>		
0			<p>LO 3. Complete relevant work-related documents</p> <p>3.1 Complete ranges of forms relating to conditions of employment accurately and legibly</p> <p>3.2 Record workplace data on standard workplace forms and documents</p> <p>3.3 Use basic mathematical process for routine calculations</p> <p>3.4 Errors in recording information on forms.</p> <p>3.5 Identify and rectify documents</p> <p>3.6 Complete reporting requirements to superior according to enterprise guidelines</p>		
	The students demonstrate an understanding of the underlying theories in working in team environment	The learners shall be able to work in a team environment according to industry procedures and requirements	<p>LO 1. Describe team role and scope</p> <p>1.1 Identify role and objective of the team</p> <p>1.2 Identify team parameters, relationships, and responsibilities</p> <p>1.3 Identify individual role and responsibilities</p>	Week 2	

0			<p>1.4 Identify and recognize roles and responsibilities of other team members</p> <p>1.5 Identify reporting relationships within team and external to team</p>	Week 2	
			<p>LO 2. Set and meet work priorities</p> <p>2.1 Prioritize competing demands to achieve personal, team and organizational goals and objectives</p> <p>2.2 Utilize resources efficiently and effectively to manage work priorities and commitments.</p> <p>2.3 Follow practices and economic use and maintenance of equipment and facilities as per established procedures.</p>		
0			<p>LO 3. Work as a team member</p> <p>3.1 Undertake appropriate forms of communication and interactions.</p> <p>3.2 Make appropriate contributions to complement team activities and objectives.</p> <p>3.3 Follow reporting using standard operating procedures.</p> <p>3.4 Contribute development of team work plans based from team role</p>		

0	The learners demonstrate an understanding of the underlying theories in using farm tools and equipment	The learners shall be able to use farm tools and equipment accordingly	<p>LO 1. Select and use farm tools and equipment*</p> <p>1.1 Identify farm tools and equipment according to use</p> <p>1.2 Conduct pre-operation check-up in line with the manufacturer's manual</p> <p>1.3 Use appropriate tools and equipment for the job requirement according to manufacturer's specifications and instructions</p>	Week 3	TLE_9-12UT-0a-1
			<p>LO 2. Perform preventive maintenance of tools and equipment</p> <p>2.1 Clean tools and equipment after use in line with farm procedures</p> <p>2.2 Perform routine check-up and maintenance</p> <p>2.3 Perform preventive maintenance by following the procedures in sharpening and oiling farm tools and equipment</p> <p>2.4 Store tools and equipment in designated areas in line with farm procedures.</p>		TLE_AF AC9-12MT-0c-3

0	The learner demonstrates an understanding of basic estimation and calculation used in animal production	The learner must be able to perform estimation and basic calculation relative to animal production	<p>LO 1. Perform estimation or basic calculation in the workplace</p> <p>1.1 Follow procedures in reporting to appropriate person/s the estimate of materials and resources</p> <p>1.2 Perform estimations or calculations to be done according to the job requirement</p> <p>1.3 Employ different techniques in checking accuracy of result</p>	Week 4	TLE_AF AC9-12MC-0d-4
	The learner demonstrates an understanding of applying safety measures in the farm.	The learner consistently applies safety measures in the farm.	<p>LO 1. Determine areas of concern for safety measures</p> <p>1.1 Identify work tasks in line with farm operations</p> <p>1.2 Determine place for safety measures in line with farm operations</p> <p>1.3 Determine time for safety measures in line with farm operations</p> <p>1.4 Prepare appropriate tools, materials, and outfits in line with job requirements</p>	Week 5	TLE_AF AAP9-12ASM O-la-b-1
			<p>LO 2. Apply appropriate safety measures</p> <p>2.1 Wear outfits according to farm requirements.</p> <p>2.2 Observe strictly the effectivity/shelf life/expiration of materials.</p>		TLE_AF AAP9-12ASM O-lc-g-2

			<p>2.3 Follow emergency procedures to ensure a safe work requirement.</p> <p>2.4 Report hazards in the workplace in line with farm guidelines.</p>		
0	The learners demonstrate an understanding of the underlying theories in processing farm waste	The learners shall be able to process farm waste according to set standards	<p>LO 1. Collect farm waste</p> <p>1.1 Prepare tools and materials for collection of farm waste</p> <p>1.2 Collect waste following OSH and waste collection requirements and plan</p> <p>1.3 Collect dangerous and hazardous wastes following the HAZMAT protocol</p>	Week 5-6	TLE_AF AAPC9- 12PFW- IIIi-j- IVa-9
			<p>LO 2. Identify and segregate wastes</p> <p>2.1 Identify waste by categories according to industry standards and environmental legislation</p> <p>2.2 Perform waste segregation according to organizational requirements and relevant legislation</p> <p>2.3 Placing sorted waste into labeled container to avoid littering and prevent cross-contamination</p> <p>2.4 Obtain information on waste by asking authority to ensure correct identification</p>		TLE_AF AAPC9- 12PFW- IVb-d- 10

			<p>LO 3. Treat and process farm wastes</p> <p>3.1 Handle dangerous and hazardous wastes according to organizational requirements and relevant legislation following OSHS procedures</p> <p>3.2 Process farm waste following environmental legislation and codes</p> <p>3.3 Apply principles of 3Rs (reduce, reuse and recycle) accordingly</p> <p>3.4 Dispose of processed farm waste according to environmental legislation and codes</p>		<p>TLE_AF AACP9- 12PFW- IVe-g- 11</p>
			<p>LO 4. Perform housekeeping</p> <p>4.1 <i>Display appropriate warning signs and labels in conspicuous places around the workplace</i></p> <p>4.2 <i>Clean work area according to 5S principles</i></p> <p>4.3 <i>Check, clean, and stow away tools according to established industry procedures and following user's manual</i></p> <p>4.4 <i>Store materials following industry standard procedures and manufacturer's specifications</i></p> <p>4.5 <i>Check PPE for damage and ensure that clean and undamaged equipment is properly stored</i></p> <p>4.6 <i>Perform record keeping according to industry requirements</i></p>		<p>TLE_AF AACP9- 12PFW- IVh-j-12</p>

Note: Week 7 and 8 for Entrepreneurship

GRADE LEVEL: 7/8

SUBJECT: TECHNOLOGY AND LIVELIHOOD EDUCATION

COMPONENT: AGRICULTURE AND FISHERY ARTS (Crop Production [ACP I, II and Horticulture]) (40 hours)

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Code
1	The learner demonstrates an understanding of concepts, underlying theories and principles in the use of farm tools and equipment.	The learner uses farm tools and equipment in agricultural crop production.	LO 1. Select and use farm tools and equipment* 1.1 Identify farm tools and equipment according to use 1.2 Conduct pre-operation check-up in line with the manufacturer's manual 1.3 Use appropriate tools and equipment for the job requirement according to manufacturer's specifications and instructions	Week 1	TLE_9-12UT-0a-1
			LO 2. Perform preventive maintenance of tools and equipment 2.1 Clean tools and equipment after use in line with farm procedures 2.2 Perform routine check-up and maintenance 2.3 Perform preventive maintenance by following the		TLE_AFA C9-12UT-0b-2

			procedures in sharpening and oiling farm tools and equipment		
1	The learner demonstrates an understanding of estimation and basic calculation needed in the workplace	The learner accurately performs estimation and basic calculation needed in the workplace	LO 1. Perform estimation or basic calculation in the workplace 1.1 Follow procedures in reporting to appropriate persons the estimate of materials and resources 1.2 Perform estimations or calculations to be done according to the job requirement 1.3 Employ different techniques in checking accuracy of result	Week 2	TLE_AFA C9-12MC-0d-4
1	The learner demonstrates an understanding of interpreting plans and drawings.	The learner interprets plans and drawings relative to agricultural crop production.	LO 1. Layout garden plots 1.1. Design farm plans and layouts according to crop grown 1.2. Follow strictly planting system and practices according to approved cultural practices 1.3. Interpret irrigation system plan according to established procedures 1.4. Differentiate designs of irrigation systems	Week 3	TLE_AFA C9-12ID-0f-g-6
	The learner demonstrates an understanding of applying safety measures in the farm.	The learner consistently applies safety measures in the farm.	LO 1. Determine areas of concern for safety measures 1.5 Identify work tasks in line with farm operations	Week 3-4	TL TLE_AFA C9-12OS-

1			<p>1.6 Determine place for safety measures in line with farm operations</p> <p>1.7 Determine time for safety measures in line with farm operations</p> <p>1.8 Prepare appropriate tools, materials, and outfits in line with job requirements</p>		<p>0h-i-7E_AFA C9-12OS-0h-i-7</p>
			<p>LO 2. Apply appropriate safety measures</p> <p>2.5 Wear outfits according to farm requirements.</p> <p>2.6 Observe strictly the effectivity/shelf life/expiration of materials.</p> <p>2.7 Follow emergency procedures to ensure a safe work requirement.</p> <p>2.8 Report hazards in the workplace in line with farm guidelines.</p>		
1	The learners demonstrate an understanding of the underlying theories in processing farm waste	The learners shall be able to process farm waste according to set standards	<p>LO 1. Collect farm waste</p> <p>1.4 Prepare tools and materials for collection of farm waste</p> <p>1.5 Collect waste following OSH and waste collection requirements and plan</p> <p>1.6 Collect dangerous and hazardous wastes following the HAZMAT protocol</p>	Week 4-6	<p>TLE_AFA APC9-12PFW-IIIi-j-IVa-9</p>

			<p>LO 2. Identify and segregate wastes</p> <p>2.5 Identify waste by categories according to industry standards and environmental legislation</p> <p>2.6 Perform waste segregation according to organizational requirements and relevant legislation</p> <p>2.7 Placing sorted waste into labeled container to avoid littering and prevent cross-contamination</p> <p>2.8 Obtain information on waste by asking authority to ensure correct identification</p>	<p>TLE_AFA ACP9- 12PFW- IVb-d-10</p>
			<p>LO 3. Treat and process farm wastes</p> <p>3.5 Handle dangerous and hazardous wastes according to organizational requirements and relevant legislation following OSHS procedures</p> <p>3.6 Process farm waste following environmental legislation and codes</p> <p>3.7 Apply principles of 3Rs (reduce, reuse and recycle) accordingly</p> <p>3.8 Dispose of processed farm waste according to environmental legislation and codes</p>	<p>TLE_AFA ACP9- 12PFW- IVe-g-11</p>
			<p>LO 4. Perform housekeeping</p>	<p>TLE_AFA ACP9-</p>

			<p>4.7 <i>Display appropriate warning signs and labels in conspicuous places around the workplace</i></p> <p>4.8 <i>Clean work area according to 5S principles</i></p> <p>4.9 <i>Check, clean, and stow away tools according to established industry procedures and following user's manual</i></p> <p>4.10 <i>Store materials following industry standard procedures and manufacturer's specifications</i></p> <p>4.11 <i>Check PPE for damage and ensure that clean and undamaged equipment is properly stored</i></p> <p>4.12 <i>Perform record keeping according to industry requirements</i></p>		12PFW-IVh-j-12
1	The learners demonstrate an understanding of the underlying theories in performing record keeping	The learners shall be able to perform record keeping	<p>LO 1. Carry out inventory activities</p> <p>1.1 Determine inventory inputs according to enterprise requirements</p> <p>1.2 Determine defective tools and equipment according to operation manuals</p> <p>1.3 Inspect facilities according to standard codes and laws</p>	Week 6	TLE_AFA APC9-12PRK-1a-b-13
1			<p>LO2. Maintain production record</p> <p>2.1 Prepare production plan according to enterprise requirements</p>		TLE_AFA APC9-12PRK-1c-f-14

			<p>2.2 Prepare schedule for production activities based from enterprise requirements and plan</p> <p>2.3 Prepare production report in accordance with enterprise reporting procedures</p> <p>2.4 Monitor input and production using monitoring chart</p>		
			<p>LO 3. Prepare financial records</p> <p>3.1 Compute production cost using established computation procedures</p> <p>3.2 Compute revenue using established computation procedures</p>		<p>TLE_AFA ACP9- 12PRK- lg-j-15</p>
<p>Note: Week 7 and 8 for Entrepreneurship</p>					

GRADE LEVEL: 7/8

SUBJECT: TECHNOLOGY AND LIVELIHOOD EDUCATION

COMPONENT: AGRICULTURE AND FISHERY ARTS (Fishery Operations [*Aquaculture and Fish Capture*]) (40 hours)

QUARTER	CONTENT STANDARDS	PERFORMANCE STANDARDS	MOST ESSENTIAL LEARNING COMPETENCIES	DURATION	K-12 CG Codes
LESSON 1: USE FISHERY TOOLS AND EQUIPMENT (UFTE)					
0	The learner demonstrates understanding of concepts, underlying theories and principles in the use of tools and equipment in aquaculture.	The learner independently uses tools and equipment in aquaculture according to standard procedure.	<p>LO 1. Select and use farm tools and equipment*</p> <p>1.1 Identify fishery tools and equipment according to use</p> <p>1.2 Conduct pre-operation check-up in line with the manufacturer's manual</p> <p>1.3 Use appropriate tools and equipment for the job requirement according to manufacturer's specifications and instructions</p>	Week 1	TLE_AFAFC AP9-12UTE-1c-d-4
			<p>LO 2. Perform preventive maintenance of tools and equipment</p> <p>2.1 Clean tools and equipment after use in line with farm procedures</p> <p>2.2 Perform routine check-up and maintenance</p> <p>2.3 Perform preventive maintenance by following the</p>		TLE_AF AQ9-12UT-1c-3

			<p>procedures in sharpening and oiling farm tools and equipment</p> <p>2.4 Store tools and equipment in designated areas in line with farm procedures.</p>		
LESSON NO. 2: PERFORM ESTIMATION AND BASIC CALCULATION (PEBC)					
	The learner demonstrates an understanding of basic estimation and calculation used in animal production	The learner must be able to perform estimation and basic calculation relative to animal production	<p>LO 1. Perform estimation or basic calculation in the workplace</p> <p>1.1 Follow procedures in reporting to appropriate person/s the estimate of materials and resources</p> <p>1.2 Perform estimations or calculations to be done according to the job requirement</p> <p>1.3 Employ different techniques in checking accuracy of result</p>	Week 2	TLE_AF AFCAP 9-12PEBC -Ih-i-7
LESSON NO. 3: DRAW THE LAYOUT PLANS FOR PONDS, TANKS PENS AND CAGES (DLP)					
0	The learner demonstrates understanding of concepts, underlying theories and principles in drawing layout plans for ponds, tanks, pens, and cages.	The learner draws lay-out plans for ponds, tanks, pens and cages in accordance with established standards.	<p>LO 1. Draw layout plans for ponds</p> <p>1.1. Identify different pond compartments</p> <p>1.2. Use signs and symbols of plan according to fishpond engineering standards</p> <p>1.3. Draw layouts of different pond designs according to established procedures</p>	Week 3	TLE_AF AQ9-12ID-If-1
			<p>LO 2. Draw layout plans for tanks</p> <p>2.1. Identify different life support systems for tanks</p>		TLE_AF AQ9-

			<p>2.2. Use signs and symbols of plan according to fishpond engineering standards</p> <p>2.3. Draw layouts of different tank designs according to established procedures</p>		12ID- lg-2
			<p>LO 3. Draw layout plans for pens and cages</p> <p>3.1. Identify the different life support systems for pens and cages</p> <p>3.2. Use signs and symbols of plan according to fishpond engineering standards</p> <p>3.3. Draw layouts of different pens and cages designs according to established procedures</p>		TLE_AF AQ9- 12ID- lh-3
LESSON 4: APPLY SAFETY MEASURES IN FISHERY FARM OPERATIONS (ASMFFO)					
0	The learners demonstrate an understanding of applying safety measures in fishery farm operations	The learners shall be able to apply safety measures in fishery farm operations	<p>LO 1. Apply appropriate safety measures</p> <p>1.1. Identify work tasks</p> <p>1.2. Determine place and time for safety measures</p> <p>1.3. Prepare appropriate tools, materials and outfits</p> <p>1.4. Use tools and materials accordingly</p> <p>1.5. Identify hazards</p> <p>1.6. Wear outfit accordingly</p> <p>1.7. Observe shelf life</p> <p>1.8. Follow emergency procedures</p>	Week 4	TLE_AF AQ9- 12OS- li-1
			<p>LO 2. Safekeeping/disposal of tools materials and outfit</p>		TLE_AF AQ9-

			<ul style="list-style-type: none"> 2.1. Explain how to clean used tools and outfits before storing 2.2. Label unused materials and supplies according to manufacturer's recommendation before storing 2.3. Observe how to dispose waste materials 		12OS-lj-2
LESSON 6. PERFORMING FIRST AID TREATMENT ON BOARD (PFTB)					
0	The learners demonstrate an understanding of various principles and techniques in performing First Aid treatment on board	The learners shall be able to perform First Aid treatment on board	LO 1. Perform immediate life-saving First Aid pending medical assistance <ul style="list-style-type: none"> 1.1 Correctly apply First Aid care in real or simulated situation 1.2 Correctly use DRABC Action plan to identify any sign of life 1.3 Appropriately place an unconscious casualty in stable-side position 1.4 Appropriately apply the method of EAR, ECC, and CPR in real or simulated situation 	Week 5	TLE_AF AFCAP 9- 12PFTB -IIIa-b- 17

0			<p>LO 2. Recognize the symptoms of acute illness and/or injury and take appropriate action</p> <p>2.1 Correctly identify the conditions requiring special first aid procedures</p> <p>2.2 Take care of unconscious casualty in real or simulated situation in accordance with established First Aid procedures</p> <p>2.3 Identify the possible causes of respiratory failure and breathing difficulty</p> <p>2.4 Provide appropriate care to casualty with respiratory failure or breathing difficulty</p>		<p>TLE_AF AFCAP 9- 12PFTB -IIIb-d- 18</p>

			<p>2.5 Identify the symptoms and signs of casualty having angina pain/heart attack</p> <p>2.6 Identify the symptoms or signs of poisoning, bites, and stings in real or simulated situation</p> <p>2.7 Take appropriate action to casualty having signs of poisoning, bites, or sting in real or simulated situation</p> <p>2.8 Apply appropriate action to conscious casualty with acute illness and/or injury in accordance with established First Aid procedures</p>		
0			<p>LO 3. Manage wounds and bleeding</p> <p>3.1 Control severe external bleeding in real or simulated situation</p> <p>3.2 Identify symptoms and signs of severe internal bleeding</p> <p>3.3 Apply appropriate action to casualty with severe internal bleeding in real or simulated situation</p> <p>3.4 Correctly manage a real or simulated laceration, abrasion, and deep puncture wound in accordance with established First Aid procedures</p>		<p>TLE_AF AFCAP 9- 12PFTB -IIIe-19</p>

			<p>3.5 Identify the signs of wound infections in real or simulated situation</p> <p>3.6 Provide appropriate action in managing wound infections in real or simulated situation</p>		
			<p>LO 4. Manage burns</p> <p>4.1 Apply appropriate First Aid procedures to casualty suffering from burn</p> <p>4.2 Assess the severity of burn in terms of depth, position, and size in accordance with established procedures</p> <p>4.3 Apply correct method of treatment for burns in real or simulated situations</p>		<p>TLE_AF AFCAP 9- 12PFTB -IIIIf-20</p>
			<p>LO 5. Manage bone, joint, and muscle injuries</p> <p>5.1 Identify symptoms and signs of fractures (simple and complicated)</p> <p>5.2 Correctly manage problems and treatment associated with dislocated joints in accordance with established procedures</p> <p>5.3 Correctly perform First Aid treatment of pelvic and chest injuries and fractures of limbs,</p>		<p>TLE_AF AFCAP 9- 12PFTB -IIIg-h- 21</p>

			<p>including the immobilization techniques, in accordance with established procedures</p> <p>5.4 Identify the symptoms and signs of sprains and strains in accordance with established procedures</p>	
			<p>LO 6. Adapt First Aid procedures for remote situations</p> <p>6.1 Apply safety precautions needed to prevent accidents, illness, and injuries and infection in remote areas</p> <p>6.2 Identify the factors involving the prevention of heat and cold exposure</p> <p>6.3 Discuss the factors involving the prevention of heat and cold exposure</p> <p>6.4 Identify the symptoms and signs of hyperthermia and hypothermia</p> <p>6.5 Apply appropriate First Aid procedures in hyperthermia and hypothermia</p> <p>6.6 Apply appropriate care for casualty in remote areas such as monitoring of monitoring of airway, breathing and heart beat, control of pain, hydration, and</p>	<p>TLE_AF AFCAP 9- 12PFTB -IIIi-j- 22</p>

			<p>maintenance of body temperature</p> <p>6.7 Manage casualty with severe injuries including transport from remote situation</p> <p>6.8 Identify the necessary First Aid resources and emergency equipment required for remote areas</p>		
LESSON 7: PROTECTING MARINE ENVIRONMENT (PME)					
	The learners demonstrate an understanding of various techniques in protecting marine environment	The learners shall be able to protect marine environment	<p>LO 1. Identify garbage disposal procedures</p> <p>1.1 Identify relevant guidelines for the implementation of garbage disposal onboard to ensure protection of marine environment</p> <p>1.2 Apply relevant guidelines for the implementation of garbage disposal on board to ensure protection of marine environment</p> <p>1.3 Follow relevant company requirements on marine environmental protection as per established practice</p> <p>1.4 Observe appropriate measures to prevent operational pollution</p>	Week 6	TLE_AF AFCAP 9- 12PME- IVa-b- 23

0			<p>to prevent pollution of the marine environment in accordance with regulations and procedures</p> <p>1.5 Apply appropriate measures to prevent operational pollution to prevent pollution of the marine environment in accordance with regulations and procedures</p> <p>1.6 Monitor compliance with state / territory garbage disposal procedures for the protection of the marine environment</p> <p>1.7 Identify incidents of noncompliance</p>		
			<p>LO 2. Perform garbage segregation</p> <p>2.1 Follow MARPOL regulations and procedures concerning protection of marine environment regarding segregation of garbage</p> <p>2.2 Apply marine environment protection programs on board as per established practice</p> <p>2.3 Identify any breach of regulations and procedures concerning protection of the marine environment</p>		<p>TLE_AF AFCAP 9- 12PME- IVc-d- 24</p>

			<p>2.4 Take associated actions in accordance with regulatory requirement and procedure</p> <p>2.5 Provide deck rating with necessary information and training to ensure compliance with regulations and procedures for the protection of the marine environment</p>		
Note: Week 7 and 8 Entrepreneurship					