TECHNOLOGY AND LIVELIHOOD EDUCATION (TLE) GRADE 7

QUARTER I - INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

CONTENT	CONTENT STANDARD The learners	LEARNING COMPETENCIES The learners
Sectors of ICT and Its Career and Business Opportunities • computer programming - programmer/web and game developer • visual arts – animator/ illustrator/ graphic designer • computer system servicing – computer/ Network technician • telecommunication – call center agents/ outbound and inbound agents/ contact center services	demonstrate an understanding of ICT sectors, as well as the potential career and business opportunities these sectors offer in relation to their chosen career in the future	analyze the various sectors of ICT and evaluate the potential career and business prospects relevant to their future career choices
Trends and Issues in ICT	demonstrate an understanding of current trends and emerging issues in ICT	2. discuss the emerging trends and issues in ICT
Qualities of Successful Entrepreneurs in the Field of ICT	demonstrate an understanding of the qualities of successful entrepreneurs in the field of ICT	3. discuss the qualities of successful entrepreneurs in the field of ICT
Occupational Safety and Health (OHS) Standards in ICT • hazards and risks management • 5s (sort, standardize, set in order, shine, sustain) • safety regulations	demonstrate an understanding of the Occupational Safety and Health (OSH) standards in ICT environments	4. discuss Occupational Safety and Health (OSH) standards in ICT environments
Computer Number Systems	demonstrate an understanding of the computer number systems	5. differentiate the various computer number systems

CONTENT	CONTENT STANDARD The learners	LEARNING COMPETENCIES The learners
hexadecimal		
Conversion of Computer Number Systems	demonstrate an understanding of conversion of computer number systems	6. apply conversion of computer number systems
PERFORMANCE STANDARD	The learners convert number systems in practical scenarios	
Word Processing Software page breaks auto tables of contents mail merge references Presentation Software rules in creating presentations master slide animation (motion path) animation pane hyperlink action buttons	demonstrate an understanding of using productivity software	7. create word documents with page breaks, auto tables of contents, mail merge, and references 8. create presentations with a master slide, motion paths, hyperlinks, and action buttons
Spreadsheet Software		9. create spreadsheets with conditional formatting and data analysis
PERFORMANCE STANDARD	The learners perform the utilization of productivity tools in a safe and responsible manner	

QUARTER II – AGRICULTURE AND FISHERY ARTS (AFA)

CONTENT	CONTENT STANDARD The learners	LEARNING COMPETENCIES The learners
Career Opportunities	demonstrate an understanding of the concepts and skills in agri-crops and animal production	discuss career and business opportunities in agriculture
Business Opportunities		
Agricultural Tools, Implements, and Equipment • agricultural tools, implements, and equipment and their uses • precautionary measures		 differentiate agricultural tools, implements, and equipment identify different tools and equipment used in agriculture
 safety procedures in using tools and equipment 		4. discuss safety procedures in farm operations
Agricultural Hazards and Risks in Farm Operations		5. discuss hazards and risks in farm operations
Agricultural Practices in Crop Production • site selection • land preparation • crop selection • planting • transplanting		6. perform agricultural practices in crop production
Care and Maintenance of Crops • weeding and cultivating • irrigation/water supply • fertilizing		7. discuss care and maintenance of crops

CONTENT	CONTENT STANDARD The learners	LEARNING COMPETENCIES The learners
 mulching using organic materials natural prevention and control of common pests and diseases (using natural farming/organic farming) Farm Waste Processing composting (basket composting) and fermentation (foliar fertilizer) 		8. explain farm waste processing 9. perform basket composting and foliar fertilizer fermentation
Agricultural Practices in Harvesting Crops • harvesting • post-harvesting PERFORMANCE STANDARD	The learners perform agricultural practices in cro	10.discuss harvesting and post-harvesting practices
Breeds of Farm Animals • poultry animals o poultry chicken (layer and broiler) o quail o ducks • livestock animals o swine o rabbit o small ruminants (dairyand meat-type such as goat and sheep) o large ruminants (dairyand meat type- such as cattle and buffalo)	demonstrate an understanding of the concepts and skills in agri-crops and animal production	11. determine the breeds of farm animals

CONTENT	CONTENT STANDARD The learners	LEARNING COMPETENCIES The learners
Materials, Tools, and Equipment for Poultry and Livestock Animals		12. determine poultry and livestock materials, tools, and equipment and their uses based on industry standards
Housing Requirements for Poultry and Livestock Animals • site selection • types of housing • design and layout		13. illustrate housing requirements for poultry and livestock based on industry standards
Feeding Management for Poultry and Livestock Animals • types of feeds • feed ingredients • feed mensuration and calculation • feeding frequency • OSH in feeding operations		14 discuss feeding management according to the Philippine National Standard (PNS) for poultry and livestock animals
Farm Waste Management in Animal Production		15. discuss farm waste management in poultry and livestock production according to Republic Act No 9003 or the Ecological Solid Waste Management Act of 2000
Products and Byproducts of Poultry and Livestock Animals • raw products • processed products		16. identify products and byproducts of poultry and livestock production
PERFORMANCE STANDARD	The learners illustrate the housing requirements industry standards	for poultry and livestock based on

QUARTER III – FAMILY AND CONSUMER SCIENCE (FCS)

CONTENT	CONTENT STANDARD The learners	LEARNING COMPETENCIES The learners
Fundamentals of Hospitality and Tourism Industry	demonstrate an understanding of the fundamentals of the hospitality and tourism industry	1. differentiate hospitality and tourism
Tourism • kinds of tourists • types and forms of tourism • based on the point of origin • based on the purpose of travel		2. distinguish the types and forms of tourism and the kinds of tourists
Hospitality • scope of hospitality industry o accommodation and lodging o travel services o food and beverage services o recreation and entertainment o clubs o conventions and events management o cruise • types of accommodations and their characteristics • hotel types and classification		3. explain the scope of the hospitality industry
Career Opportunities in Hospitality and Tourism Industry		4. identify career and business opportunities in the hotel and tourism industry

CONTENT	CONTENT STANDARD The learners	LEARNING COMPETENCIES The learners
Issues, Challenges, Trends and Innovations in Hospitality and Tourism		5. examine the issues, challenges, trends, and innovations in the hospitality and tourism industry
Fundamentals of Food Preparation and Service • different food service operations • commercial • institutional • basic rules in food preparation and service • kitchen layout		6. discuss the fundamentals of food preparation and service
Seven Principles of Hazard Analysis Critical Control Point (HACCP)		7. recognize the seven principles of HACCP in food preparation and service
Tools and Equipment in Food Preparation • kitchen • food service • care and maintenance		8. identify the common tools and equipment used in food preparation and service industry9. discuss the care and maintenance of tools and equipment used in food preparation and service industry
Table Napkin Fold uses of table napkin table napkin sizes basic table napkin fold		10. demonstrate table napkin folds

CONTENT	CONTENT STANDARD The learners	LEARNING COMPETENCIES The learners
Food Selection, Preparation and Cooking • guidelines in food selection • guidelines in food preparation		11. discuss the principles of food selections and preparation12. convert units of measurement
Principles of Cooking		
Kitchen Math • English and metric system		
PERFORMANCE STANDARD	The learners apply skills in food preparation and s	ervices following safety precautions

QUARTER IV - INDUSTRIAL ARTS (IA)

CONTENT	CONTENT STANDARD The learners	LEARNING COMPETENCIES The learners
 Services in Industrial Arts construction services (woodwork, metal works, masonry, construction painting, plumbing, tile setting) electrical-electronics services (electronics product assembly and services, electrical installation and maintenance, domestic refrigeration and air condition services) automotive and small engine (automotive servicing, motorcycle/ small engine servicing) 	demonstrate an understanding of the concepts in industrial arts services	1. discuss the services in industrial arts
Career and Business Opportunities		2. determine career and business opportunities in industrial arts
Codes and Standards in Industrial Arts Services • National Building Code of the Philippines or Republic Act No 6451 (residential construction) • Philippine Electrical Code (residential wiring) • Philippine Electronics Code • traffic and road signs	demonstrate an understanding of the codes and standards in industrial arts services	3. discuss the codes and standards for industrial arts services
Hand Tools, Power Tools, Instruments, and Equipment Used in Industrial Arts Services • power tools • hydraulic tools • pneumatic tools	demonstrate an understanding of the uses and maintenance of hand tools, power tools, instruments, and equipment	4. identify the uses and maintenance of hand tools, power tools, instruments, and equipment

CONTENT	CONTENT STANDARD The learners	LEARNING COMPETENCIES The learners
 instruments (analog, digital, and computer-based) measuring calibrating testing equipment and accessories construction services electro-mechanical services electrical services automotive and small engine services Preventive Maintenance handling storing 		
Scale Reading • volt-ohm-milliammeter • tachometer • oscilloscope • ampere meter	demonstrate an understanding of the concepts and principles in performing mensuration and calculations	5. interpret the readings in different measuring instruments
Mensuration and Calculations		6. demonstrate mensuration and calculations following safety precautions
PERFORMANCE STANDARD	The learners perform mensuration and calculations following safety precautions	