



Republic of the Philippines

Department of Education

DepEd Complex, Meralco Avenue, Pasig City

STRENGTHENED SENIOR HIGH SCHOOL CURRICULUM

POULTRY PRODUCTION (CHICKEN)

Grade 11/12

Course Description:

This course equips learners with essential skills in Poultry Production-Chicken, focusing on the poultry production-chicken in accordance with the industry standards. The course includes growing of chicken-broilers/layers and collection of eggs according to enterprise production requirement, marketing of poultry products, and evaluation of records for production expansion. After completing the course, learners are eligible to take assessments to earn the National Certificate Level II in Animal Production (Poultry-Chicken). They may also pursue higher education or careers in the animal production (poultry-chicken) industry.

Elective: Technical Professional

Prerequisite: None

Time Allotment: In Grade 11, 320 hours for two semesters, 8 hours per week. In Grade 12, 320 hours for one semester, 16 hours per week

Schedule: First/Second Semester

QUARTER 1

CONTENT STANDARD:	The learners demonstrate understanding on the overview of poultry production-chicken, pre-operational activities, farm input requirements, and maintenance of farm facilities for poultry production-chicken.
PERFORMANCE STANDARD:	The learners perform pre-operational activities and maintenance of farm facilities in poultry production-chicken in accordance with Occupational Safety and Health Standards.
LEARNING COMPETENCIES	CONTENT
1. Discuss the overview of poultry production-chicken	Overview of Poultry Production-Chicken <ul style="list-style-type: none"> • Terminologies in poultry production-chicken • Technology and innovation in poultry production-chicken • Career and business opportunities in poultry production-chicken • Importance of raising poultry- chicken in food security and economic development • Challenges in poultry production-chicken • Regulations and ordinances in poultry production-chicken

	<ul style="list-style-type: none"> ○ Department of Environment and Natural Resources Rules and Regulations ○ Animal Welfare Act – Minimum Standards on the Welfare of Poultry ○ Guidelines Good Animal Husbandry Practices (GAHP) ○ Environmental Compliance Certificate ○ Zoning Ordinances ○ Local Ordinances • Agencies that regulate poultry production-chicken <ul style="list-style-type: none"> ○ Department of Health ○ Department of Labor and Employment (DOLE) ○ Department of Agriculture ○ Department of Agriculture-Bureau of Animal Industry (DA-BAI) ○ Philippine Animal Health Center (PAHC)
2. Perform pre-operational activities in poultry production-chicken in accordance with Environmental Compliance Certificate	<p>Pre-operational Activities in Poultry Production-Chicken</p> <ul style="list-style-type: none"> • Farm lay-out of poultry house and facilities • Farm plan <ul style="list-style-type: none"> ○ site location ○ topography ○ accessibility ○ drainage ○ utility Supplies ○ ventilation and sunlight exposure • Housing plan and requirements <ul style="list-style-type: none"> ○ design ○ materials • Farm facilities <ul style="list-style-type: none"> ○ work area ○ storage room ○ brooding area ○ growing area

	<ul style="list-style-type: none"> ○ laying facilities
3. Discuss farm inputs in poultry production-chicken	<p>Inputs Requirements for Poultry Production-Chicken</p> <ul style="list-style-type: none"> • Farm tools and equipment • Brooding cages and growing cages • Farm supplies <ul style="list-style-type: none"> ○ feeds ○ veterinary supplies ○ chicken stocks • Farm records <ul style="list-style-type: none"> ○ operational cost <ul style="list-style-type: none"> - input of materials - labor requirement - water and electric supply
4. Perform maintenance of poultry house and facilities according to ethical and standard practices	<p>Maintenance of Poultry House and Facilities</p> <ul style="list-style-type: none"> • Tools and equipment <ul style="list-style-type: none"> ○ PPE • Safety measures practices • Housekeeping principles <ul style="list-style-type: none"> ○ 3Rs ○ 5S • Types of maintenance <ul style="list-style-type: none"> ○ preventive ○ corrective ○ schedule • Minor repair <ul style="list-style-type: none"> ○ roof repair ○ pipe repair ○ floor slat repair ○ curtain fixing and or replacement ○ cage repair ○ net repair and maintenance ○ feeder repair

	<ul style="list-style-type: none"> ○ waterer repair • Major repair <ul style="list-style-type: none"> ○ electrical problem ○ ventilation problem ○ lighting system problem ○ generator malfunction ○ sludge flushing <p>Farm Area Maintenance Activities</p> <ul style="list-style-type: none"> • Labelling and handling of chemicals • Disposal of wastes and farm by-products • Disposal of necropsied and dead animals • Clearing of the surroundings • Minor repair of farm fences • Foot bathing in farm gate • Vehicle bathing in farm gate • Maintenance of drainage canal
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QUARTER 2

CONTENT STANDARD:	The learners demonstrate understanding the principles in poultry breeds and strains in the Philippines and health and care management in poultry production-chicken.
PERFORMANCE STANDARD:	The learners perform flock selection and culling, brooding of chicks, and beak trimming in accordance with Animal Welfare Act.
LEARNING COMPETENCIES	CONTENT
1. Perform flock selection and culling of chicken.	Poultry Breed and Strain in the Philippines <ul style="list-style-type: none"> • Broilers • Layers • Breeders Flock Selection

	<ul style="list-style-type: none"> • Missexed • Characteristics of good broiler • Characteristics of good layers • Characteristics of good breeders <p>Culling of Chicken</p> <ul style="list-style-type: none"> • Method of culling chicken • Purpose of culling chicken • Condition of poultry stock for culling
2. Discuss health and care management in poultry production -chicken	<p>Health and Care Management</p> <ul style="list-style-type: none"> • Down-time period • Supplementation and vaccination • Vermin and insect control • Stress management <ul style="list-style-type: none"> ○ heat ○ physical stress ○ environmental • Biosecurity <ul style="list-style-type: none"> ○ structural biosecurity ○ operational Biosecurity ○ staff and visitors ○ cleaning and disinfection
3. Perform brooding of chicks	<p>Brooding of Chicks</p> <ul style="list-style-type: none"> • Brooding house <ul style="list-style-type: none"> ○ ventilation ○ beddings ○ temperature control • Space requirements • Lighting requirements • Water requirements • Feeds and feeding • Nutrients requirements
4. Perform beak trimming following Animal Welfare Act	Beak Trimming Following Animal Welfare Act

	<ul style="list-style-type: none"> • Tools, materials and equipment in beak trimming • Sanitation and disinfection measures • Bird conditioning before trimming • Beak trimming and retrimming • Update records after beak trimming
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QUARTER 3

CONTENT STANDARD:	The learners demonstrate understanding the principle in growing of broilers and layers, pre-laying and laying activities of ready to lay-pullets, poultry-chicken breeding activities.
PERFORMANCE STANDARD:	The learners perform growing of chicken-broilers and layers and collection of eggs according to enterprise production requirement.
LEARNING COMPETENCIES	CONTENT
1. Perform growing of chicken-broilers/layers	<p>Growing of Broiler / Layers</p> <ul style="list-style-type: none"> • Procedure in transferring of chicks • House and space requirement • Lighting requirements • Water requirements • Feeds and feeding • Nutrients requirements <ul style="list-style-type: none"> ○ vitamins ○ supplements • Performance parameter <ul style="list-style-type: none"> ○ Feed Conversion Ratio ○ Average Daily Gain (ADG)
2. Discuss pre-laying and laying activities of ready-to-lay pullets	<p>Pre-Laying and Laying Activities of Ready-to-lay Pullets</p> <ul style="list-style-type: none"> • Disinfection and cleaning of laying house • Transfer of ready-to-lay pullets • Lighting requirements • Nutrients requirements • Health care practices

<p>3. Discuss breeding activities according to enterprise production requirement</p>	<p>Poultry Breeding Activities</p> <ul style="list-style-type: none"> • Characteristics of rooster for breeder • Rooster and hens mating ratio • Hygiene procedures <ul style="list-style-type: none"> ○ eggs cleaning and sanitation ○ wiping ○ fumigation • Storage of breeder egg <ul style="list-style-type: none"> ○ scheduling and recording ○ humidity of storage facility • Egg Hatching <ul style="list-style-type: none"> ○ selection of healthy eggs ○ incubation ○ candling
<p>4. Perform harvest and post-harvest of eggs according to standard procedure</p>	<p>Harvest and Post-Harvest Activity of Eggs</p> <ul style="list-style-type: none"> • Materials in egg collection • Collection of eggs • Sorting and grading of eggs <ul style="list-style-type: none"> ○ Size and Weight Sorting ○ Quality of Egg • Packaging materials • Storing • Record keeping of collected eggs

QUARTER 4

CONTENT STANDARD:	The learners demonstrate understanding of the principles on harvesting and post-harvesting activities of poultry-chicken based on the industry practices.
PERFORMANCE STANDARD:	The learners perform dressing of chicken, marketing of poultry products, and evaluation of records for production expansion.
LEARNING COMPETENCIES	CONTENT
1. Discuss harvesting and post-harvesting activities of broiler	Harvest and Post-Harvest Activities of Chicken-roiler <ul style="list-style-type: none"> • Procedure in harvesting broilers <ul style="list-style-type: none"> ○ preparation ○ catching ○ transporting ○ stunning and slaughtering • Post-harvest activities for broiler <ul style="list-style-type: none"> ○ processing ○ chilling ○ packaging ○ quality control ○ distribution
2. Perform dressing of chicken	Dressing of Chicken <ul style="list-style-type: none"> • Preparatory activities • Tools, material and equipment • PPE in dressing chicken • Procedures in dressing chicken • Handling Procedures of dressed chicken
3. Perform marketing of poultry product based on market demand	Marketing Operations of Poultry Products <ul style="list-style-type: none"> • Poultry products <ul style="list-style-type: none"> ○ live and dressed ○ fresh egg ○ processed poultry products • Selling

	<ul style="list-style-type: none"> ○ farm gate price ○ suggested retail price • Distribution • Recordkeeping
4. Evaluate records of poultry products for the expansion of production.	Record Evaluation <ul style="list-style-type: none"> • Sales and inventory • Return of investment • Performance evaluation

GLOSSARY

broiler – any commercial meat-type chicken usually raised up to six weeks of age

brooder – an area used for raising young fowl that provides sufficient light and protection

brooding – a management practice where chicks are given extra supplemental heat and proper care and management

cage housing – a type or system of poultry housing where layers could be kept alone, by two, or in big groups in cage

culling – is the removal of undesirable or inferior animals in the herd based on important economic traits and overall performance

downtime -- rest period

immunization – prevention of diseases by providing appropriate vaccines to animals

incubation – refers to the development of the birds from the fertilized eggs to fully formed chicks
livestock – domestic animals kept for use on a farm and raised for sale and profit

nutrients – food elements or substance found in the feeds such as protein, carbohydrates, fats and others

poultry – a collective term for birds used either for breeding, egg production, meat production, and recreation

pullet – a young bird ready to lay egg

ration – the total amount of feeds taken in by an animal during a 24-hour period

rooster – a matured male poultry used for breeding

vaccination – a preventive measure to inoculate an animal with a mildly toxic preparation of bacteria or a virus of specific disease to prevent or to lessen the effects of the disease

waterer – equipment used in providing water to animal

REFERENCES

Amsterdam, Elsevier. Kekeocha, C.C. *Poultry production*, World Animal Science, No. 9. *Poultry production handbook*. London. Macmillan Publishers Ltd, 1985.

AGRICULTURE AND FISHERY SECTOR TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY. (2013). *ANIMAL PRODUCTION (POULTRY-CHICKEN) NC II TRAINING REGULATIONS* [Training regulations].

[https://www.tesda.gov.ph/Downloadables/TR%20-%20Animal%20Production%20\(Poultry-Chicken\)%20NC%20II.pdf](https://www.tesda.gov.ph/Downloadables/TR%20-%20Animal%20Production%20(Poultry-Chicken)%20NC%20II.pdf)

Belayavin, CG & Wells, RG. Egg quality - current problems and recent advances. Sevenoaks, UK, Butterworths, 1987.

Clauer, P. Small Scale Poultry Housing. Virginia Cooperative Extension 2902-1092, 2009.

7. La Cross, C. and Graves, R.E. On-Farm Composting. Pennsylvania State University Cooperative Extension, Fact Sheet C 3, 1992.

Brodie, H.L., and L.E. Carr. Composting Animal Mortalities on the Farm. Maryland Cooperative Extension Fact Sheet 717, 1997.

Department of Agriculture. Philippines Poultry Broiler Industry Roadmap 2022-20240. <https://www.da.gov.ph>

Department of Agriculture. Philippine Poultry Layer Industry Roadmap 2022-20240. <https://www.da.gov.ph>

Morishita, Teresa Y. Biosecurity for Poultry. VME Factsheet. Ohio State University Extension. Columbus, OH 43210, 2001.

Vest, L. and Dale, N. Nutrition for the backyard flock. Leaflet 396. The University of Georgia Cooperative Extension Service, 2002.

LIST OF TOOLS, MATERIALS AND EQUIPMENT

Tools	Materials	Equipment
plastic drinking jars	sponge	electric fans (ventilation)
wheel borrow	scrub	lighting equipment
chick guard	broomstick and broom	feeders
shovel	trash can	waterers
spade	sacks	knapsack sprayer
crow bar	dust fan	power sprayer
electrical tools	pipes	electric generator
pail and basin	pale and basin	heater
feed scoop	disinfectants	brooder
wheel barrow	detergent	electric lamps
ring guard	bleaching agent	weighing scale
chick guard	water hose	feed bin
scissors	drum	feed cart
measuring cups/spoon	masks	industrial fan
	gloves	fire extinguisher
	rubber boots	chicken crates/coops
	hats	vaccinator
	egg trays	debeaker
	light bulbs	egg sorting machine
	syringes and needles	light meter
	biologics	fabricated layer cages
	medicated sacks(for foot bath)	
	first-aid kit	
	chemical spill kit	
	personal protective equipment	