

Model Curriculum

Broiler Farm Worker

SECTOR: AGRICULTURE & ALLIED
SUB-SECTOR: POULTRY
OCCUPATION: POULTRY FARMING
REF ID: AGR/Q4302, V1.0
NSQF LEVEL: 3



Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

AGRICULTURE SKILL COUNCIL OF INDIA

for the

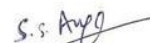
MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/ Qualification Pack: '**Broiler Farm Worker**' QP No. '**AGR/ Q4302 NSQF Level 3**'

Date of Issuance: March 15th, 2015

Valid up to: March 31st, 2019

* Valid up to the next review date of the Qualification Pack



Authorised Signatory
(Agriculture Skill Council of India)

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Broiler Farm Worker

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a **"Broiler Farm Worker"**, in the **"Agriculture & Allied"** Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Broiler Farm Worker		
Qualification Pack Name & Reference ID. ID	AGR/Q4302, v1.0		
Version No.	1.0	Version Update Date	
Pre-requisites to Training	No entry level barrier		
Training Outcomes	After completing this programme, participants will be able to: <ul style="list-style-type: none"> • Prepare Broiler shed: Introduction to Poultry Farm, site selection, construction of shed • Carry out the Brooding Management: Work environment, brooding management of chicks, • Carry out the routine work in shed: Handling & caring, health management, vaccination etc Maintain health and safety: Clean and disinfect the shed, hygiene maintenance		

This course encompasses 6 out of 6 National Occupational Standards (NOS) of “Broiler Farm Worker” Qualification Pack issued by “Agriculture Skill Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Introduction Theory Duration (hh:mm) 5:00 Practical Duration (hh:mm) 0:00 Corresponding NOS Code	<ul style="list-style-type: none"> Understand General Discipline in the class room (Do's & Don'ts) Understand Role of a Poultry Farm Worker Understand the Broiler Farming Poultry Breeds – Broiler Farming Learn and Practice Basic skills of communication Learn and Practice Basic reading capabilities to enable reading of signs, notices and/or cautions at site. 	Laptop, white board, marker, projector
2	Understand Work requirements Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code AGR/N4306	<ul style="list-style-type: none"> Understand the location of the farm and it's connectivity Understand the resource requirements Understand the frequency of resource requirements Understand and follow the caring and handling of chicks Understand the mortality of the chicks/birds Understand and Perform culling Understand the importance of bio security – Movement of people, workers in the shed, buyers entering into shed etc 	Laptop, white board, marker, projector,
3	Prepare Broiler shed for placement of chicks Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 30:00 Corresponding NOS Code AGR/ N4307	<ul style="list-style-type: none"> Prepare the shed for the placement of chicks – ventilation opening, feeder, water, moisture level, dust, Clean, disinfect, sanitize and fumigate the tools/ equipments and shed Understand and maintain the comfort environment for chicks- adequate light, heat, clean water, feed Understand and create the Footbath at the entrance (Chemicals/ disinfectants) 	Laptop, white board, marker, projector, chemicals, disinfectants
4	Carry out Brooding Management Theory Duration (hh:mm) 15:00 Practical Duration	<ul style="list-style-type: none"> Understand the handling of chicks Understand and maintain the proper environment in brooding house Maintain the record 	Laptop, white board, marker, projector

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	(hh:mm) 25:00 Corresponding NOS Code AGR/N4302		
5	Health Management of Chicks Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 15:00 Corresponding NOS Code AGR/N4304	<ul style="list-style-type: none"> Understand the Feed requirement of chicks, birds Follow the feed chart Provide the balanced feed Understand and practice the waste minimization Understand and maintain the proper Feed Conversion Ratio Understand the different types of vaccines and time period Understand the diseases and management Record the weight of the birds at regular interval 	Laptop, white board, marker, projector, Vaccines, Balanced Feed Chart, Record book
6	Maintain farm equipments, buildings and environment Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 15:00 Corresponding NOS Code AGR/N4303	<ul style="list-style-type: none"> Observe and inspect the farm equipments Clean and disinfect the loos/ implements Check the tools/ equipments Check the infrastructure Clean and disinfect the farm environment Ensure proper temperature level, light intensity, moisture level, ventilation etc Maintain the lesser mortality Preserve the dead birds for examination Perform the proper method for Disposal of dead birds Dispose the litter material after the batch is over 	Laptop, white board, marker, projector, Sprayer, disinfectants
7	Maintain Personal Health and safety Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code AGR/N4311	<ul style="list-style-type: none"> Maintain a clean & efficient workplace Render appropriate emergency procedures Report to supervisor at regular time intervals Practice General safety and first aid 	Laptop, white board, marker, projector, first aid kit
	Total Duration:	Unique Equipment Required: Laptop, white board, marker, projector, chemicals, disinfectants, poultry shed, feeder, waterer, first aid kit	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Theory Duration (hh:mm) 85:00 Practical Duration (hh:mm) 105:00		

Grand Total Course Duration: **190 Hours, 0 Minutes**

(This syllabus/ curriculum has been approved by [Agriculture Skill Council of India](#))

Trainer Prerequisites for Job role: "Broiler Farm Worker" mapped to Qualification Pack: "AGR/Q4302, v1.0"

Sr. No.	Area	Details
1	Description	Trainer is responsible for educating the trainees - preparing the poultry farm for placement of chicks, carry out their feed; water; litter; brooding and health management to raise broiler chicks according to market's standards
2	Personal Attributes	Trainer should be Subject matter Expert. He/ she should have good communication, leadership, observation and practical oriented skills
3	Minimum Educational Qualifications	Diploma in Veterinary Science/Animal Husbandry/Poultry
4a	Domain Certification	Certified for Job Role: <u>"Broiler Farm Worker"</u> mapped to QP: <u>"AGR/Q4302, v1.0"</u> . Minimum accepted score is 80%
4b	Platform Certification	Certified for the Job Role: "Trainer", mapped to the Qualification Pack: "MEP/Q0102". Minimum accepted score is 80%
5	Experience	<ul style="list-style-type: none"> • M V Sc • M Sc (Animal Science) • B. V. Sc. • B. Sc. Agriculture with 2 years of relevant work experience • B.Sc. with 3 years of relevant work experience • Diploma in Veterinary Sciences /Animal Husbandry / Poultry) with 5 years of relevant work experience

Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Broiler Farm Worker
Qualification Pack	AGR/Q4302, v1.0
Sector Skill Council	Agriculture

Sr. No.	Guidelines for Assessment
1	Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2	The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3	Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS
4	Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
4	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
5	To pass the Qualification Pack , every trainee should score a minimum of 50% of aggregate marks to successfully clear the assessment.
6	In case of <i>unsuccessful completion</i> , the trainee may seek reassessment on the Qualification Pack.

Assessment outcomes	Assessment Criteria for outcomes	Total Marks (300)	Out Of	Marks Allocation	
				Theory	Skills Practical
1.AGR/N4306 Understand work requirements	PC1. understand the site selection criterion for poultry shed and its design specifications from the poultry farm supervisor	45	3	1	2
	PC2. understand what size and type of plot will provide ample light and aeration for quality poultry farming		3	1	2
	PC3. understand poultry farm location with respect to road, residence, nearby poultry / animal / bird farm, market and available veterinary services of the area		3	2	1
	PC4. understand the orientation of the poultry farm with respect to sunlight, its water requirements, height of roof, roofing material required for insulation in different seasons		3	2	1
	PC5. understand about type of vegetation required in the poultry farm and at what distance.		3	1	2
	PC6. understand the requirements of different resources like broiler chicks, feed, equipments, man power, water, litter material etc to get quality broiler chicks		4	1	3
	PC7. understand the requirements of equipments for broiler farming like brooders, chick guards, various kinds of feeder & drinker, oven for heat generation etc.		4	1	3
	PC8. estimate the quantity requirement of each resource to raise set number of broilers		6	2	4
	PC9. prepare the final list of resources required along with their quantity in consultation with poultry farm supervisor		6	0	6
	PC10. understand all the requirements for setting up a poultry farm as per standards		4	2	2
	PC11. estimate all the required resources correctly for raising broiler chicks		3	1	2
	PC12. ensure availability of quantity of material with the help of poultry farm supervisor for achieving quantity target of broiler production		3	1	2
			45	15	30
2.AGR/N4307 Prepare broiler shed for placement of chicks	PC1. clean empty rooms, sheds and its surrounding area thoroughly between flocks after removing any visible manure and dirt	75	3	0	3
	PC2. clean all chick guards, feeding and watering equipment		3	0	3
	PC3. clean all the ventilation openings and ensure they are unobstructed		3	0	3
	PC4. clear moisture, dust and ammonia levels by using fans and oven		3	1	2
	PC5. disinfect empty rooms thoroughly by fumigation / spray as per supervisor's instruction		4	0	4
	PC6. disinfect sheds thoroughly after covering it with plastic sheet and fumigating / spraying as per supervisor's instruction		4	0	4

	PC7. disinfect all the equipments thoroughly		4	1	3
	PC8. clean and disinfect water tanks and equipment		4	1	3
	PC9. clean and disinfect the incoming water through chlorination and filtration before being distributed to different working areas		4	1	3
	PC10. ensure sanitary dry out procedure as directed by the supervisor prior to chick placement		2	2	0
	PC11. arrange chick guard in a circular manner and fill with bedding material for day old chicks (DOC)		3	1	2
	PC12. spread the litter materials (wood shavings, chopped straw etc) evenly		2	0	2
	PC13. ensure adequate light and heat in the area to make the place warm				
	Appropriately		2	2	0
	PC14. ensure that chicks are protected physically from predators		2	2	0
	PC15. ensure that chicks don't have access to poisons like pesticides or unused medications located in the poultry farm		2	2	0
	PC16. ensure that adequate clean water at room temperature is available for the chicks		2	2	0
	PC17. provide fresh, dust free feed in flat pans, trays or paper sheeting in the brooder area to ensure chicks easy access to it		3	1	2
	PC18. ensure seasonal management of the internal environment of the poultry farm by using proper insulation / opening the sides of the farm		2	2	0
	PC19. report problems related to creation of chick friendly environment to farm supervisor in a timely manner		3	3	0
	PC20. ensure correct exposure to target areas to fumigation		1	1	0
	PC21. use correct dosages of fumigation to disinfect the area		5	3	2
	PC22. dispose of unused fumigation medicine and plastic sheets in environmental friendly way		2	0	2
	PC23. use chemicals for disinfection without getting the ill effects of exposure		3	3	0
	PC24. store fumigants and pesticides at one place away from the brooding area		2	2	0
	PC25. ensure harmless, soft, fibrous, moisture absorbing suitable litter material		1	1	0
	PC26. ensure conditions of litter like wet, dry etc. according to weather conditions		1	1	0
	PC27. ensure hygiene and quantity of litter material along with stirring/raking processes		2	2	0
	PC28. create good cozy environment for incoming one day old chicks		3	1	2
			75	35	40
3.AGR/N4308 Carry out brooding management	PC1. ensure room and shed is adequately warmed	45	2	2	0
	PC2. counting and sorting the quality DOC and releasing in brooder		3	0	3
	PC3. provide water and feed periodically as per supervisor's instruction		3	2	1

	PC4. ensure adequate care and monitoring at frequent interval		3	3	0
	PC5. remove littered bedding material (news paper) and alert chicks periodically		3	0	3
	PC6. ensure that blade to be used for debeaking is clean, sterilized and adequately hot		3	2	1
	PC7. cut the upper beak to the necessary extent as directed by supervisor		5	2	3
	PC8. ensure that no damage is caused to nostrils and other organs during this process		3	2	1
	PC9. observe the debeaked chicks for behavioural abnormalities		3	3	0
	PC10. ensure uniform temperature throughout the brooding area		3	1	2
	PC11. ensure clean and disinfected atmosphere in the brooding area		3	1	2
	PC12. ensure harmless, soft, fibrous, moisture absorbing suitable litter material		3	2	1
	PC13. ensure conditions of litter like wet, dry etc. According to weather conditions		3	2	1
	PC14. ensure hygiene and quantity of litter material along with stirring/raking processes		5	3	2
			45	25	20
4.AGR/N4304 Health management of chicks	PC1. provide correct nutritional diet to broiler chicks as per the market's standards		8	4	4
	PC2. follow the scientific feeding program as per the growth stages of chicks		4	2	2
	PC3. ensure that feed and water dispenser are placed at a level accessible to chicks		3	2	1
	PC4. document the feed record as per company's policy		5	2	3
	PC5. ensure that litter used in the farm house is dry to prevent disease spread		3	2	1
	PC6. isolate young chicks from older chicks if more than one age groups are present on the farm		3	1	2
	PC7. ensure that any dead chick is removed and disposed off promptly according to regional regulations and company's SOP		3	2	1
	PC8. vaccinate chicks as per the vaccination schedule		10	4	6
	PC9. provide special vaccination for disease prevalent in the area after consultation with farm supervisor		4	1	3
	PC10. assess the medical requirements of chicks from their day-to-day activity and behaviour		7	4	3
	PC11. document the preventive medication record as per company's policy		4	2	2
	PC12. ensure minimum mortality rate of broiler chicks		3	2	1
	PC13. ensure final weight, abdominal and carcass fat level and breast yield of farm's broiler chickens as per market's standards	60	3	2	1
			60	30	30
5.AGR/N4303 Maintain farm	PC1. perform visual inspection of farm tools and equipments daily	60	2	2	0

equipments, building and environment	PC2. check that all tools and equipments like brooder units, chick guards, oven, various kinds of feeders and water troughs etc are in working and usable condition		2	1	1
	PC3. ensure that there are no liquid spillages, blockage or cracks in them		1	1	0
	PC4. check that plastic / rubber water pipes are not kinked or blocked		2	1	1
	PC5. clean all the tools and equipments daily after use		2	1	1
	PC6. get the tools and equipments repaired whenever they are not in working condition		2	2	0
	PC7. perform visual inspection of the physical infrastructure daily		2	2	0
	PC8. ensure that all the areas are well lit		1	1	0
	PC9. ensure that there is no bare or damaged electrical wire		1	1	0
	PC10. ensure that screws of main plug are tight and there is damaged electrical board		1	1	0
	PC11. check for all lights, oven and brooder rings are working		2	0	2
	PC12. check for any water tap, connector or pipe is not leaking or blocked		1	0	1
	PC13. ensure that there is no seepage in the walls		2	1	1
	PC14. check for all the sewerage outlets / holes are unblocked		2	1	1
	PC15. clean the poultry farm and its surrounding area daily		4	2	2
	PC16. clean the empty rooms thoroughly between flocks after removing any visible manure and dirt		2	1	1
	PC17. remove any dead chick promptly and dispose them according to company's SOP / regional regulations		2	1	1
	PC18. disinfect empty rooms and sheds thoroughly by fumigation / spray as per supervisor's instruction		3	1	2
	PC19. clean all feeding, watering, and brooding equipments		3	1	2
	PC20. carry out sanitary dry out procedure prior to bird placement as per supervisor's instructions		3	1	2
	PC21. clean and disinfect water tanks and equipment on a regular basis after use				
	and before starting a new production cycle		3	1	2
	PC22. clean and disinfect the incoming water through chlorination and filtration before being distributed to different working areas		2	1	1
	PC23. adjust temperature of water before it enters production units		2	1	1
	PC24. ensure all facilities receive water of the same quality		1	1	0
	PC25. ensure that all the ventilation openings are clean and unobstructed		1	0	1
	PC26. ensure maintenance of adequate air circulations to have consistent good air quality		1	1	0
	PC27. ensure moisture, dust and ammonia levels are within permissible levels by using fans and oven		1	0	1
	PC28. ensure that chicks don't contact poisons like insecticides, pesticides or unused medications located in the poultry farm		1	0	1

	PC29. ensure that litter materials (wood shavings, chopped straw etc) are evenly spread throughout the brooding area to an appropriate depth		1	0	1
	PC30. provide fresh, dust free feed in flat pans, trays or paper sheeting in the brooder area to ensure chicks easy access to it		3	2	1
	PC31. ensure adequate light and heat in the brooding area		1	0	1
	PC32. ensure uniform temperature throughout the brooding area		1	0	1
	PC33. ensure clean and disinfected atmosphere in the poultry farm		1	0	1
	PC34. ensure minimum mortality rate of broiler chick		1	1	0
			60	30	30
6.AGR/N4311 Maintain personal health and safety	PC1. know about works for which protective clothing or equipment is required		1	1	0
	PC2. wear appropriate protective clothing or use equipment while performing those duties		1	1	0
	PC3. perform all procedures and work instructions for controlling operational risk		1	0	1
	PC4. understand the hazards of use and contamination mentioned on labels of vaccine / medication / pesticides / fumigants bottles		1	1	0
	PC5. take safety measures when handling chemicals used for disinfection		1	0	1
	PC6. check all tools and equipments before operating them		1	0	1
	PC7. dispose of waste safely and correctly in a designated area as per company's SOP		1	0	1
	PC8. perform the duties in a manner which minimizes environmental damage		1	0	1
	PC9. report any accidents, incidents or problems without delay to farm supervisor and take necessary immediate action to reduce further danger		1	1	0
	PC10. maintain personal hygiene necessary for farm worker		1	1	0
	PC11. undergo regular preventive health check up by designated doctor		1	1	0
	PC12. take prompt treatment in case of illness from the designated doctor		1	0	1
	PC13. follow SOPs for dealing with accidents, fires or any other type of emergencies		1	1	0
	PC14. create odourless and clean environment at poultry farm		1	1	0
	PC15. ensure no productivity loss or absenteeism from work due to illness		0.5	0.5	0
	PC16. ensure no accident at work	15	0.5	0.5	0
			15	9	6
Grand Total		300	300	150	150
Percentage Weightage:				50%	50%
Minimum Pass% to qualify (aggregate):				50%	