

Model Curriculum

Artificial Insemination Technician

SECTOR: AGRICULTURE & ALLIED
SUB-SECTOR: ANIMAL HUSBANDRY
OCCUPATION: LIVESTOCK HEALTH MANAGEMENT
REF ID: AGR/Q4803, 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: '**Artificial Insemination Technician**' QP No. '**AGR/Q4803 NSQF Level 3**'

Date of Issuance: March 24th, 2018

Valid up to: March 31st, 2021

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



Authorised Signatory
(Agriculture Skill Council of India)

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Artificial Insemination Technician

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Artificial Insemination Technician”, in the “Agriculture & Allied” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Artificial Insemination Technician		
Qualification Pack Name & Reference ID.	AGR/Q4803, v1.0		
Version No.	1.0	Version Update Date	
Pre-requisites to Training	8th Standard passed		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Implement cattle breeding service: Cattle breeds and basics of breeding, artificial insemination, assistance to farmers on management of unproductive animals, breeding related data recording and performance monitoring. • Assist in veterinary extension services: Promotion of approved technologies for productivity and profitability of farming operations. • Assist in development program implementation: Engagement with farmers’ institutions, promotion of economic activities, and marketing of farm inputs. 		

Trainer Prerequisites for Job role: “Artificial Insemination Technician” mapped to Qualification Pack: “AGR/Q4803, v1.0”

Sr. No.	Area	Details
1	Description	Trainer provides education and guidance on cattle breeding, management and development related services mostly in the outdoor setting.
2	Personal Attributes	Trainer should have a mind for science, belongingness to the community, compassion for animals, good leadership, communication and observation skills. He / she should be physically strong and have manual dexterity.
3	Minimum Educational Qualifications	Regular Diploma (more than 15 months in veterinary /Animal Husbandry / Dairying)
4a	Domain Certification	Certified for Job Role: “ <u>Artificial Insemination Technician</u> ” mapped to QP: “AGR/Q4803, v1.0”. 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. with 1 year of relevant work experience • B. Tech (Dairy) with 3 years of relevant work experience • B. Sc Agriculture with 4 years of relevant work experience • Regular Diploma (more than 15 months in veterinary /Animal Husbandry / Dairying) with 5 years of relevant work experience

Annexure: Assessment Criteria

Job Role	Artificial Insemination Technician
Qualification Pack	AGR/Q4803, v1.0
Sector Skill Council	Agriculture

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 *unsuccessful completion*, the trainee may seek reassessment on the Qualification Pack.

Assessment outcomes	Assessment Criteria for outcomes	Total Mark (300)	Marks Allocation		
			Out Of	Theory	Skills Practical
1. AGR/N4820 : Implementation of cattle breeding services	PC1. help farmers / clients with information on sources of good breeding animals.	100	5	5	0
	PC2. assist farmers / clients in selecting animal with proper breed and other characteristics for breeding purpose.		10	3	7
	PC3. detect heat in cattle.		10	3	7
	PC4. use semen of appropriate quality and blood level.		5	3	2
	PC5. follow protocols pertaining to biosecurity, safety, hygiene and welfare		10	5	5
	PC6. follow the prescribed procedures in handling semen straw and in conducting insemination.		30	5	25
	PC7. conduct artificial insemination in time.		5	5	0
	PC8. guide farmers / clients on appropriate feeding practices required for breeding animals e.g. mineral supplementation etc.		10	4	6
	PC9. guide farmers on maintaining optimum number of animals based on breeding plan and suggested performance goal.		5	3	2
	PC10. use field data collection tools (including electronic reader / mobile based data collection) as per given specifications.		5	1	4
	PC11. provide organization with standard required information such as semen used; time of heat, time of insemination, calf born etc. needed to monitor breeding services.		5	3	2
			100	40	60
2. AGR/ N4808 Assisting in veterinary extension services	PC1. understand and explain the applicability and benefit associated with common approved technology(s) / best practice(s) in the context of local situations, opportunities and constraints.	100	35	15	20
	PC2. give feedback on technology application in field and need for improvement (if any).		10	4	6
	PC3. organize extension events based on farmer convenience and seasonal suitability.		15	4	11
	PC4. understand and explain quality parameters regarding various farm inputs.		10	5	5
	PC5. scout sources, plan and organize farmers for intelligent (timely, quality and cost based) procurement of inputs.		10	3	7
	PC6. keep record that can help make farmer meeting and farm school activities 'targeted' and		10	4	6

	'need based'				
	PC7. Use modern communication devices, audio-visual aids to explain farmers / clients.		10	5	5
			100	40	60
3. AGR/N4810 Development program implementation and marketing in livestock sector	PC1. promote awareness of programs and help in targeted beneficiary selection as envisioned in the promoted project / program.		10	4	6
	PC2. work with selected project beneficiaries in implementing activities as envisaged in promoted programs.		10	2	8
	PC3. attend and cooperate during meetings / programs of farmer's institutions / panchayats.		10	2	8
	PC4. inform / involve farmer leaders / panchayat functionaries in selection of program beneficiaries.		10	2	8
	PC5. facilitate organizations' / panchayat's endeavor to ensure convergence of development projects for synergy.		5	5	0
	PC6. motivate and handhold formation of self-help groups.		15	5	10
	PC7. guide farmers on business options and basic economics of various livestock linked activities.		15	5	10
	PC8. motivate farmers to produce for market and ensure aggregation, collective marketing of livestock products.		10	5	5
	PC9. provide market related e.g. prices etc. information to farmers.		7	2	5
	PC10. provide information on livestock farm inputs e.g. feed, fodder, supplements etc.	100	8	8	0
			100	40	60