

Model Curriculum

Agriculture Extension Service Provider

SECTOR: AGRICULTURE & ALLIED
SUB-SECTOR: AGRICULTURE INDUSTRIES
OCCUPATION: INFORMATION MANAGEMENT
REF ID: AGR/Q7601, V1.0
NSQF LEVEL: 4



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: **'Agriculture Extension Service Provider' OP No. 'AGR/O7601 NSQF Level 4'**

Date of Issuance: March 15th, 2015

Valid up to: March 31st, 2016

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


S. S. Arora
Authorised Signatory
(Agriculture Skill Council of India)

Agriculture Extension Service Provider

CURRICULUM / SYLLABUS

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

Program Name	Agriculture Extension Service Provider		
Qualification Pack Name & Reference ID. ID	AGR/Q7601, v1.0		
Version No.	1.0	Version Update Date	
Pre-requisites to Training	No entry level barrier		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Plan for the Extension Services: Identify the needy service, Collection of Inputs for Extension Services, Preparation and planning for the extension service • Training to Farmers: Planning, Delivery, Feedback and documentation • Demonstrate the latest technologies: Field Demonstration, method demonstration, Tools and equipments, observation, feedback 		

This course encompasses 5 out of 5 National Occupational Standards (NOS) of “Agriculture Extension Service Provider” 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) Corresponding NOS Code	<ul style="list-style-type: none"> Understand the General Discipline in the class room (Do’s & Don’ts) Understand the Role of Agriculture Extension Service Provider Learn and practice Basic skills of communication Learn and Practice Basic reading capabilities to enable reading of signs, notices and/or cautions at site. 	White Board, Marker, Laptop, projector
2	Plan for the extension Services Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 15:00 Corresponding NOS Code AGR/N7601	<ul style="list-style-type: none"> Identify the extension services required in the particular area Collection of inputs from Senior officials, media and other sources Identify the tools and equipments required for the extension service Prepare a schedule(Date, venue, Time) for the extension service Frame the timeline for the each extension services 	White Board, Marker, Laptop, projector,
3	Identify location specificity of Agricultural Technology Theory Duration (hh:mm) 15:00 Practical Duration (hh:mm) 15:00 Corresponding NOS Code AGR/ N7602	<ul style="list-style-type: none"> Consult the Farmers representative group in the village Study the local factors which influence the Agriculture Identify and enlist the required Agricultural technology - Location Specific 	Marker, Laptop, projector,
4	Make frontline demonstration Theory Duration (hh:mm) 10:00	<ul style="list-style-type: none"> Identify and select the demonstration site Select the Farmers group Identify the tools/equipments required for the demonstration process Arrange the field day and demonstrate the necessary farm operations (farm 	White Board, Marker, Laptop, projector,

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Practical Duration (hh:mm) 20:00 Corresponding NOS Code AGR/N7603	machines and equipment, operation of seed drill, seed treatment, fertiliser application, plant protection, harvesting etc) <ul style="list-style-type: none"> Observe and record the satisfaction level of the Farmers group Provide the information related to Agriculture Inputs Maintain the record of demonstrations Perform the regular Follow up 	
5	Provide Training to Farmers Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 20:00 Corresponding NOS Code AGR/N5304	<ul style="list-style-type: none"> Prepare a training plan <ul style="list-style-type: none"> Selection of topics/Technologies Selection of Place of Training Selection of Group of Farmers Prepare a delivery plan <ul style="list-style-type: none"> Modules Theory and Practical Provide the Training Assess the Farmers satisfaction Record the Feedback Follow up the post training observations Maintain the documentation 	White Board, Marker, Laptop, projector,
6	Assist with backward and forward linkages Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 20:00 Corresponding NOS Code AGR/N7605	<ul style="list-style-type: none"> Identify the Agriculture inputs required for the farmers (considering local factors) Identify the Efficient Local input supplier Create a backward linkage between Input suppliers and Farmers Communicate to the Farmers related to Agri business plan, entrepreneurship, supply chain, contract farming, food processing industry, local market etc Create a forward linkage between Farmers and Food processing industry/supply chain related companies etc 	White Board, Marker, Laptop, projector,
	Total Duration: Theory Duration (hh:mm) 60:00 Practical Duration (hh:mm) 90:00	Unique Equipment Required: Laptop, white board, marker, projector,	

Grand Total Course Duration: **150 Hours, 0 Minutes**

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

Trainer Prerequisites for Job role: “Agriculture Extension Service Provider” mapped to Qualification Pack: “AGR/Q7601, v1.0”

Sr. No.	Area	Details
1	Description	Trainer is responsible for providing the education and skills development training related to Planning for extension service, training, guidance and actual demonstrations on latest technologies related to agriculture.
2	Personal Attributes	Trainer should be Subject Matter Specialist. He/ She should have good communication and observation skill, leadership skill, practical oriented skill
3	Minimum Educational Qualifications	Diploma, Bachelor Degree in Agriculture Science
4a	Domain Certification	Certified for Job Role: “Agriculture Extension Service Provider” mapped to QP: “AGR/Q7601, v1.0”. Minimum accepted score is 80%.
4b	Platform Certification	Certified for the Job Role: “Trainer”, mapped to the Qualification Pack: “SSC/Q1402”. Minimum accepted score is 70%
5	Experience	<ul style="list-style-type: none"> • Post graduate with an experience of 1 Year, • Graduate with experience of 3 + Years, • Diploma with relevant experience of 5+ Years.

Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Agriculture Extension Service Provider
Qualification Pack	AGR/Q7601, 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	Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (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 criteria
5	To pass the Qualification Pack, every trainee should score a minimum of 70% in aggregate
6	The marks are allocated PC wise; however, every NOS will carry a weight age in the total marks allocated to the specific QP

Assessable Outcome	Assessment Criteria	Total Marks	Out Of	Marks Allocation	
				Theory	Skills Practical
1. AGR/N7601 – Plan for the extension services	PC1. hold discussions with senior extension officers to plan where the services have to be provided	30	2	1	1
	PC2. take inputs from senior extension officers on what type of training should be provided in the area chosen		1	1	0
	PC3. take inputs on what technologies would be appropriate for the area chosen		1	1	0
	PC4. take inputs on what factors should be considered for providing demonstrations and trainings		1	1	0
	PC5. take inputs on what tools and equipment should be used for providing extension services		1	1	0
	PC6. take internal trainings from subject matter specialists to prepare for providing extension services		1	0	1
	PC7. clarify all doubts in the internal trainings		1	0	1
	PC8. gain mastery over the subject matter		2	1	1
	PC9. understand fully about the new technologies to be demonstrated		2	1	1
	PC10. understand the usage of tools and equipment to be used for extension services		2	1	1
	PC11. prepare to interact with farmers in the area chosen		1	0	1
	PC12. study the socio-economic aspects of the area chosen		3	1	2
	PC13. study the agronomic profile of the area chosen		3	2	1
	PC14. outline the action plan consisting of shortlisted technologies, tools and equipment, training		5	3	2

	methodologies, etc.				
	PC15. decide the date and time when the farmers need to be contacted		2	2	0
	PC16. decide the timeframe of different elements of extension services, such as soil-testing, frontline demonstrations and trainings		2	0	2
	Total		30	16	14
2. AGR/N7602 - Identify location specificity of agricultural technology	PC1. identify the representative group of farmers	45	1	1	0
	PC2. identify other stakeholders in the area such as the sarpanch, district collector etc.		1	1	0
	PC3. reach out to the representative group of farmers as well as the other stakeholders		1	1	0
	PC4. discuss the objectives of the exercise		1	1	0
	PC5. convince the representative group to participate in the exercise		2	2	0
	PC6. hold detailed discussions to assess their needs		2	2	0
	PC7. involve the representative group in investigations to find the suitability of the new technology		1	1	0
	PC8. list down the problems to be solved		1	0	1
	PC9. rank the problems by priority		1	0	1
	PC10. identify causes of problems		1	0	1
	PC11. list possible solutions		2	0	2

PC12. screen possible solutions for feasibility	2	1	1
PC13. identify experimental factors to be included in on-farm experiments	2	0	2
PC14. use statistically valid experimental designs	2	0	2
PC15. conduct on-farm experiments in the fields of representative farmers	4	2	2
PC16. involve the representative farmers in the experiments	2	2	0
PC17. establish cause-effect relationships	1	0	1
PC18. evaluate the performance and potential application of the new technology / farm practice	2	1	1
PC19. evaluate if the new technology can be applied 'as-is' or if it needs to be refined and modified to be adapted in the local context	1	0	1
PC20. properly document the results of on-farm testing in a precise, clear and concise manner	2	2	0
PC21. discuss test results and ideas with the representative group of farmers as well as the other stakeholders	2	2	0
PC22. use analytical tools to study the findings of on-farm experiments	3	1	2
PC23. analyse farmers' reactions and opinions	3	1	2
PC24. use findings for future research	1	0	1
PC25. use findings for demonstrations on a larger area in the farmers' fields	1	0	1
PC26. design an action plan which is economically viable, operationally feasible and matching with the needs	3	2	1

	of the farmers				
	Total		45	23	22
3. AGR/N7603 - Make frontline demonstrations	PC1. know the vicinity where demonstrations have to be carried out	90	3	3	0
	PC2. select appropriate and proven technologies to be demonstrated		4	0	4
	PC3. select the block of demonstration site		3	3	0
	PC4. select a group of demonstration farmers who are willing to cooperate		3	3	0
	PC5. finalise package of practices consisting of frontier technologies		6	4	2
	PC6. prepare for demonstrations by arranging critical inputs to be used for the demonstrations		4	2	2
	PC7. guide and assist farmers in laying out the field where demonstrations have to be made		4	0	4
	PC8. hold special training programmes for the farmers in whose plots demonstrations are to be laid		5	3	2
	PC9. be present at the time of crucial farm operations like seeding, fertiliser application, weeding, irrigation, plant protection measures, harvesting, threshing, and weighing of produce and use each of these operations as an input for training of farmers		6	2	4
	PC10. encourage questions from farmers at each stage of the operations		2	0	2
	PC11. arrange a field day to project the new technologies demonstrated in front of a large manageable group of interested farmers		4	0	4

	PC12. plan the field day when the crop is fully matured and ready for harvest		4	2	2
	PC13. arrange a few method demonstrations on operation of farm machines and equipment, operation of seed drill, seed treatment, fertiliser application, plant protection etc.		6	2	4
	PC14. arrange harvesting in the presence of identified group of farmers and ask them to estimate the yield to see the results of demonstrated technologies		6	3	3
	PC15. assess satisfaction level of the farmers		4	0	4
	PC16. provide information reinforcement, timely supply of inputs and / or on-the-spot guidance to ensure that farmers don't revert to old practices		6	3	3
	PC17. link the follow-up programme with the local institutions like farmer club, farmers cooperative society, village panchayat etc.		5	2	3
	PC18. maintain records for each block demonstration		5	2	3
	PC19. maintain an information card with basic information of the demonstration site and detailed information of the demonstration		5	3	2
	PC20. maintain technical report containing information on cost-benefit ratio of the demonstration to help work out the economic returns		5	5	0
	Total		90	42	48
4. AGR/N7604 – Provide training to farmers	PC1. select technologies / topics on which training has to be provided (could be agriculture as well as allied topics)	90	4	2	2
	PC2. select topics which can help farmers with a supplementary source of income		4	2	2
	PC3. select a place where training has to be provided, i.e. farmers' field, training school etc.		4	4	0

PC4. select a group of farmers to whom training has to be provided	4	4	0
PC5. arrange necessary inputs required for the training, such as machinery and equipment, black board, leaflets etc.	5	3	2
PC6. gather the farmers on a specific date and time for the training	2	2	0
PC7. deliver training modules in a clear and concise manner	10	4	6
PC8. make the training session interactive and encourage questions from the farmers	4	4	0
PC9. provide both theoretical as well as practical training	10	5	5
PC10. assess satisfaction level of the farmers	4	0	4
PC11. seek feedback after the training session is over	4	0	4
PC12. note down the feedback so that it helps with further refinement and development of the training program	1	0	1
PC13. follow up with the farmers to ensure whether are following the new practices taught	8	0	8
PC14. follow up with the farmers to assess the benefits they received from the training program	8	0	8
PC15. maintain records of all training programs delivered	5	2	3
PC16. maintain details of feedback received and action taken	4	4	0
PC17. document the benefits received by farmers from the trainings	4	4	0
PC18. document challenges faced during the training programmes	5	5	0

			90	45	45
	Total				
5. AGR/N7605 – Assist with backward and forward linkages	PC1. help arrange critical inputs like seed, fertilizers, pesticides etc.	45	10	6	4
	PC2. assist in arranging inputs at an optimum cost		4	4	0
	PC3. assist in arranging high quality inputs		4	4	0
	PC4. link the farmers to input providers		5	1	4
	PC5. develop entrepreneurial skills in farmers for selling their produce		6	3	3
	PC6. assist in preparing agri-business plan		6	3	3
	PC7. explain the concept of cash management		4	0	4
	PC8. link the farmers to food industry		6	3	3
			45	24	21
	TOTAL	300	300	150	150
	<u>Percentage Weightage:</u>			<u>50%</u>	<u>50%</u>
	<u>Minimum Pass% to qualify (aggregate):</u>			<u>60%</u>	