

Model Curriculum

Pesticide & Fertilizer Applicator

SECTOR: AGRICULTURE & ALLIED
SUB-SECTOR: AGRICULTURE CROP PRODUCTION
OCCUPATION: FARM MANAGEMENT
REF ID: AGR/Q1202, 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: '**Pesticide & Fertilizer Applicator**' / QP No. '**AGR/ Q 1202 NSQF Level 3**'

Date of Issuance: November 30th, 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)

Pesticide & Fertilizer Applicator

CURRICULUM / SYLLABUS

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

Program Name	Pesticide & Fertilizer Applicator		
Qualification Pack Name & Reference ID. ID	AGR/Q1202, v1.0		
Version No.	1.0	Version Update Date	
Pre-requisites to Training	8 th Standard Pass		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Identify major insect-pest, diseases of area specific crops: Insect Pest attack on plants, plant diseases, life cycle of insect-pest • Prepare plant protection solutions: Identify and select the equipments, use of chemicals, preparation of solution, dosage, spraying <p>Well versed with health & safety at the work place: Well versed with health and safety measures in terms of personal safety and others at work place.</p>		

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Practical Duration (hh:mm) 15:00 Corresponding NOS Code AGR/N5003	<ul style="list-style-type: none"> Handle emergency situation in workplace and during any farm operation Practice general safety procedures follow during processing unit 	
	Total Duration: Theory Duration 90:00 Practical Duration 110:00	Unique Equipment Required: Laptop, white board, marker, projector, chemicals, mask, sprayer, can, shoes, gloves, first aid kit	

Grand Total Course Duration: **200 Hours, 0 Minutes**

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

Trainer Prerequisites for Job role: “Pesticide and Fertilizer Applicator” mapped to Qualification Pack: “AGR/Q1202, v1.0”

Sr. No.	Area	Details
1	Description	Trainer provides education on different crops, pest and diseases, climate change, different types of chemicals, dosage, method of using etc
2	Personal Attributes	Trainer should have awareness about the chemical hazards, good communication and observation skills, practical oriented skills, and leadership skills. Trainer should be subject matter expert.
3	Minimum Educational Qualifications	Diploma in Agriculture
4a	Domain Certification	Certified for Job Role: “ <u>Pesticide and Fertilizer Applicator</u> ” mapped to QP: “ <u>AGR/Q1202, 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"> • Post Graduate (Agriculture / Horticulture / Botany/Forestry/Chemistry/Biotechnology) • B. Sc. (Agriculture / Horticulture / Botany / Forestry/Biotechnology) with 1 year of relevant work experience • B.Sc. with 3 years of relevant work experience • Diploma in Agricultural Extension Services for Input Dealers (DAESI) with 3 years of relevant work experience and total 5 years of work experience • Diploma in Agriculture with 3 years of relevant work experience and total 5 years of work experience

Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Pesticide and Fertilizer Applicator
Qualification Pack	AGR/Q1202, 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.

				Marks Allocation	
Assessable Outcome	Assessment Criteria	Total Marks	Out Of	Theory	Skills Practical
1. AGR / N 1210 – Understand major pests of area specific crops along with their fertilizer need	PC.1 understand the cropping pattern in the area	120	10	6	4
	PC.2 diagnose the causes of pest damage symptoms by analysing feeding methods and behaviour		12	6	6
	PC3. identify the factors that determine the occurrence of pest damage and its importance		10	4	6
	PC4. recognize the important pests of specific crops in order to identify, anticipate and prevent the damage each may cause, and to select the most appropriate control measures or combination of measures for specific circumstances		12	6	6
	PC5. conduct field observation for pests judging the intensity of occurrence		10	4	6
	PC6. collect samples of pests and damaged crops		10	4	6
	PC7. ascertain the insect-pests and confirm its growth stage		8	4	4
	PC8. ascertain the disease infesting the crops		10	4	6
	PC9. ascertain the weed-pests		8	4	4
	PC10. understand the importance and application of different types of fertilizers		10	5	5
	PC11. determine the requirement of plants as per the cropping pattern and soil conditions		10	4	6
	PC.12 Classify tillage implements into Primary tillage implements, Secondary Tillage implements, levelling equipment and trailer		10	4	6
		120	120	55	65

Grand Total				
Percentage Weightage:			47%	53%
Minimum Pass% to qualify:			50%	