

Syllabus For SEED PRODUCTION TECHNOLOGY

Course Name	SEED PRODUCTION TECHNOLOGY
Sector	AGRICULTURE
Course Code	AGR/2021/SPTE/005
Level	4 (RPL)
Occupation	SEED PRODUCTION TECHNOLOGY
Course Duration	Total Duration 37.5Hrs (OJT)
Trainees' Entry Qualification	Class VIII Pass with 5 years experience in the relevant field
Trainers Qualification	BSC in agriculture with 2 year experience in the relevant field OR/ Diploma in agriculture with 3 years experience

SYLLABUS:

DAY	TOPIC (Each for 1.56 hr. duration)	SYLLABUS	REMARKS
1 st	Concept of Seed Quality	Define Seed and grain, seed quality parameters, its importance,	
	Principles and procedure of quality seed production	Agronomic and genetic principles, Steps of Seed production – source verification, registration, precise cultivation techniques, processing and storage.	
	Seed Certification-its protocol and process	Definition, utility, different steps, role of SSCA, procedures in field inspection and sampling, types of tags etc.	Chart can be used
	Community Seed production-its concept and success in W.B.	Definition, idea on Seed village, benefits, Limitations, scenario in west Bengal condition.	
	Pulse seed production in W.B.	Common pulses in WB, selection of area & land, environment, fertilizer application, sowing techniques, harvesting, processing, storage	Field visit may be included
2 nd	Paddy seed production in W.B.	Selection of cultivars, selection of season, area & land, fertilizer application, sowing techniques, harvesting, processing, storage	Field visit may be included
	Oilseed seed production in W.B.	Suitable oilseeds in WB, selection of time, area & land, fertilizer application, sowing techniques, harvesting, processing, storage	Field visit may be included
	Potato seed production in W.B.	Selection of area & land, fertilizer application, sowing and cultivation techniques, harvesting, processing, storage	Field visit may be included
	Vegetable seed production procedure	Selection of appropriate vegetables, its time, selection of area & land, fertilizer application, sowing techniques, harvesting, processing, storage	Field visit may be included
	Seed processing and	Steps of processing, Techniques of drying,	

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	storage	cleaning, grading, packaging, tagging etc., Types of storage, utility, basic requirements in storage.	
3 rd	Seed production of Spices and Plantation crops	Suitable spices and plantation crops in WB, selection of area & land, sowing time, fertilizer application, sowing techniques, harvesting, processing, storage.	Field visit may be included
	Hi-tech seed production of Potato	Selection of time, area & land, TPS production, use of Aeroponic and hydroponic technologies, fertilizer application, sowing techniques, harvesting, processing, storage.	Field visit may be included
	Hybrid Paddy seed production	Concept on hybrid seed, techniques for hybrid paddy seed production, use of male sterile line, selection of time, area & land, fertilizer application, sowing techniques, interculture operations, harvesting, processing, storage	Field visit may be included
	Seed production of Fibre crops - Jute and Mesta	Suitable fibre crops in WB, selection of time, area & land, fertilizer application, sowing techniques, harvesting, processing, storage.	Field visit may be included
	Seed production of Flowers	Potential flower types in WB, selection of time, area & land, fertilizer application, sowing techniques, harvesting, processing, storage.	
4 th	Visit to Seed Processing Plant	Observe the procedure of drying, cleaning, grading, bagging etc.	Processing Plant visit is essential
5 th	Integrated Disease Management in Seed production	Definition, common diseases of WB, remedial measures, Integrated management system.	
	Integrated Pest Management in Seed production	Definition of IPM, common pests of WB, remedial measures.	
	Seed Quality Testing	Utility of testing, Important tests for quality management, procedure of these tests.	Practical is needed for different tests
	Stored grain pests and its management	Types of Stored grain pests, remedial measures, Idea on Godown condition to control it.	
	Seed Marketing	Idea on Seed market chain, Demand forecast, marketing structure, seed distribution, factors of seed marketing.	Chart can be used
6 th	Interaction		
	Evaluation and Feedback		
	Valediction Session		

S No.	Name of the Tool & Equipment	Specification	Quantity
1.	Land for cultivation	Fertile, high or medium high	1 bigha
2.	Processing machine	According to specific crop	one
3.	Sewing machine		one
4.	Balance	0.5 – 100 kg	one
5.	Balance	0.01 – 100 g	one
6.	Germinator	210L	one
7.	Petridish with lid	Tarson	10
8.	Measuring tape	50 m	one
9.	Forcep	Large and small	2 + 2
10	Watch glass	Large and small	10 + 10
11	Purity work Board		one
12	Riffle type divider		one
13	Sleeve trier/Nobbe trier		one
14	Grader	small	one
15	Grinding machine	small	one
16	Beaker	500 ml, 250 ml, 100 ml	5 + 5 + 10
17	Oven	160 L (40°C - 140°C)	one
18	Glass plate	8" x 6"	10
19	Aluminium box	small	10