

SECTOR -AGRICULTURE
JOB ROLE:SOLANACEOUS CROP CULTIVATOR
QP CODE: AGR/Q0402
CLASS - 9th

Total No of Topics - 72
Total No of Topics Deducted from four section - 14
20 % of (Total no of topics) = 14
20 % Reduction Of Sector as Follows - (Theory and Practicals need to drop out are highlighted in red color)

Sl. No.	List of Units	List of Practicals Aligned With Each Unit	Unit/Session to be reduced(Theory and Practical)	Remark(Reason for dropping or reduce)
UNIT 1:	Introduction to Horticulture			
SESSION 1	Define Horticulture	Enlist the major horticultural crops in India and your locality		
SESSION 2	Importance of Horticulture in daily life			
SESSION 3	of Horticulture in india			
SESSION 4	Branches of Horticulture	Draw a diagram depicting the classification of horticultural crops		
SESSION 5	Different Horticultural crops and their major growing region in India			
SESSION 6	al operations viz.training,pruning and tra	Visit to a nursery/ Horticulture farm for Demonstration of pruning, Training and transplanting of seedlings 2. Practice of pruning		
SESSION 7	Olericulture	Demonstrate the availability of nutrients through vegetables using charts/pictures		
SESSION 8	ance of vegetable in human diet			
UNIT 2:	Seed Selection and Seedling Production			

SESSION 1	Characteristics of seed with their suitability to	Identify various and appropriate variety (including hybrid) of Solanaceous crops		
SESSION 2	Characteristics of healthy varieties	Identify various vendors / suppliers (including government nurseries /department) of the seed that are certified		
SESSION 3	Demand of various variety in the market	Procure seeds in appropriate quantity. Identify market rates for Solanaceous crop seeds (such as tomato, capsicum,)		
SESSION 4	Preparing the site for seed bed	Demonstration of the procedure of preparation of various types of seed beds – raised, sunken, level		
SESSION 5	Soil sterilization – solarisation and chemical treatment			
SESSION 6	Seed treatment techniques with chemicals			
SESSION 7	Factors affecting seed germination – seed viability, seed pests and diseases, etc	Estimating how much seed is required to grow a given number of area for each crop		
SESSION 8	Factors to be considered while planting seeds on seed bed and polybags/ trays – time, depth, etc.	Planting seeds in the poly bags/trays to aid in the cultivation of Solanaceous crops. Counting the number of seeds that have germinated so as to assess mortality rate		
SESSION 9	Pros and disadvantages of soil nursery or tray	Identify soil nursery or tray method for growing seedlings		
SESSION 10	Depth and spacing of planting seedlings in case of soil nursery & tray for Solanaceous crops	Plant the seed at correct depth and appropriate spacing . Water the seedling at appropriate time with appropriate method		

UNIT 3	Field Preparation and Transplanting in Solanaceous Crops			
SESSION 1	Importance of Soil testing	Enlist the authorised soil testing centres in your state.		
SESSION 2	Various authorized centers of soil testing	Prepare the land with ridges and furrows		
SESSION 3	Level of soil tillage including depth of ploughing and appropriate equipments for ploughing	Application of farm yard manure and Fertilizer		
SESSION 4	Distance between ridges and furrows			
SESSION 5	f farm yard manure and fertilizer in appropriate quantity			
SESSION 6	Appropriate time for planting by taking in to account of soil, climatic conditions	Demonstration Transplanting of seedling at appropriate stage and spacing		
SESSION 7	Planting equipments (shovel or trowel)			
SESSION 8	Spacing between rows and plants			
SESSION 9	4. Advantages and disadvantages of intercropping and types of plant to be intercropped			
SESSION 10	5. Advantages of crop rotation			
UNIT 4	II Nutrient Management in Vegetable Crops			
SESSION 1	ts / components under macro & micro nu	Understand the basic macro & micro nutrients with their functions		

SESSION 2	Function of each macro & micro nutrient	Undertake testing of soil to determine its nutrient and fertilizer needs from authorized laboratory		
SESSION 3	Advantages & disadvantages of particular macro & micro nutrients	Collect soil testing report		
SESSION 4	Types of organic manures (farm yard manure, compost, green manure, vermicompost), fertilizers and biofertilizers	Visit to a Vegetable farm for applying manures and fertilizers as per the recommended dose to various vegetables		
SESSION 5	Methods of application of manures, fertilizers and biofertilizers			
SESSION 6	Time of application of manures, fertilizers and biofertilizer			
UNIT 5	Occupation Health, Hygiene and First Aid Practices			
SESSION 1	Types of hazards	Reading of the manuals for tools, equipment and materials used at Vegetable Farm	Theory	Reduced by Subject Matter Expert.
SESSION 2	Common hazards at Vegetable Farm	Demonstration of the correct and safe use of tools, equipment and materials.	Types of hazards	
SESSION 3	Principles of safety and health	Discussion on the procedure for reporting any accident, incident or problem without delay to an appropriate person and taking action to reduce further danger	Common hazards at Vegetable Farm	
SESSION 4	Procedure and steps to be taken to report any accident, incident or problem without delay to an appropriate person		Principles of safety and health	

SESSION 5	Applicable hygiene and safety standards, regulations, and codes for Vegetable farm		Procedure and steps to be taken to report any accident, incident or problem without delay to an appropriate person	
SESSION 6	Procedure for providing first aid in case of medical emergency – cut, burns, bites, grazes, bruises electric shock, external bleeding, et	Demonstration of basic first aid practices adopted for cut, burns, snake bites, grazes, bruises, external bleeding, dog bites, bee bites, and other	Applicable hygiene and safety standards, regulations, and codes for Vegetable farm	
			Procedure for providing first aid in case of medical emergency – cut, burns, bites, grazes, bruises electric shock, external bleeding, et	
			Practical	
			Reading of the manuals for tools, equipment and materials used at Vegetable Farm	
			Demonstration of the correct and safe use of tools, equipment and materials.	
			Discussion on the procedure for reporting any accident, incident or problem without delay to an appropriate person and taking action to reduce further danger	
			Demonstration of basic first aid practices adopted for cut, burns, snake bites, grazes, bruises, external bleeding, dog bites, bee bites, and other	