

# Model Curriculum

## Citrus Fruit Grower

**SECTOR: AGRICULTURE & ALLIED**  
**SUB-SECTOR: AGRICULTURE CROP PRODUCTION**  
**OCCUPATION: HORTICULTURE- FRUIT CROP CULTIVATION**  
**REF ID: AGR/Q0303, 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: 'Citrus Fruit Grower' QP No. 'AGR/Q0303 NSQF Level 4'

Date of Issuance: March 15<sup>th</sup>, 2015

Valid up to: March 31<sup>st</sup>, 2016

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



Authorised Signatory  
(Agriculture Skill Council of India)

## TABLE OF CONTENTS

1. Curriculum	04
2. Trainer Prerequisites	07
3. Annexure: Assessment Criteria	08

# Citrus Fruit Grower

## CURRICULUM / SYLLABUS

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

<b>Program Name</b>	<b>Citrus Fruit Grower</b>		
<b>Qualification Pack Name &amp; Reference ID. ID</b>	AGR/Q0303, v1.0		
<b>Version No.</b>	1.0	<b>Version Update Date</b>	
<b>Pre-requisites to Training</b>	No entry barrier, 5 <sup>th</sup> standard pass preferable		
<b>Training Outcomes</b>	<p><b>After completing this programme, participants will be able to:</b></p> <ul style="list-style-type: none"> <li>• <b>Grow and manage crop:</b> Inputs requirement, Preparation of field, sowing, soil testing, application of fertilizer &amp; nutrients, quality management, crop management</li> <li>• <b>Maintain the quality of the produce:</b> Time of Harvesting, Moisture level of the produce, post harvest practice, packing and transportation.</li> <li>• <b>Become well versed with Environment Health &amp; Safety:</b> Well versed with health and safety measures in terms of personal safety and others as well.</li> </ul>		

This course encompasses 10 out of 10 National Occupational Standards (NOS) of “Citrus Fruit Grower” Qualification Pack issued by “Agriculture Skill Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<b>Introduction</b>  <b>Theory Duration</b> (hh:mm) 5:00  <b>Practical Duration</b> (hh:mm) 5:00  <b>Corresponding NOS Code</b>	<ul style="list-style-type: none"> <li>Understand the General Discipline in the class room (Do’s &amp; Don’ts)</li> <li>Understand the Role of a Citrus Fruit Grower</li> <li>Understand and study the Scopes and Opportunities of Horticulture Crops cultivation</li> </ul>	White Board, Marker, Laptop, projector
2	<b>Prepare land for Citrus fruit cultivation</b>  <b>Theory Duration</b> (hh:mm) 05:00  <b>Practical Duration</b> (hh:mm) 06:00  <b>Corresponding NOS Code</b> AGR/No314	<ul style="list-style-type: none"> <li>Study and perform different type of soil, their structure, texture and composition, soil amendments and soil nutrient profile, time of sowing, optimum soil moisture level, etc</li> <li>Identify, Select and use the tools and equipments for the land preparation</li> <li>Predict favourable climatic condition for Citrus Crop</li> <li>Upgrade the idea about site selection, season, seed -rate, row spacing/row ratio, and other sowing and planting activity</li> <li>Soil Sampling: Take soil samples in the field for Soil Testing</li> <li>Perform soil treatment, seed treatment methodologies, and tillage practices before the sowing</li> </ul>	White Board, Marker, Laptop, projector, Record Keeping Book, receipts, voucher
3	<b>Perform Propagation &amp; Transplantation</b>  <b>Theory Duration</b> (hh:mm) 10:00  <b>Practical Duration</b> (hh:mm) 10:00  <b>Corresponding NOS Code</b> AGR/ No315	<ul style="list-style-type: none"> <li>Understand the tools and equipments required for the nursery preparation</li> <li>Prepare Nursery bed</li> <li>Understand the soil treatment method</li> <li>Understand and practice the seed treatment</li> <li>Perform the propagation technique</li> <li>Understand and practice the Budding</li> <li>Understand the time of transplanting from nursery to field</li> <li>Perform Transplanting method</li> <li>Keep record on the crop cultivation</li> </ul>	Marker, Laptop, projector, Soil testing kit, plastic bags, labels,
4	<b>Perform intercultural operations</b>  <b>Theory Duration</b> (hh:mm)	<ul style="list-style-type: none"> <li>Understand the importance of mulching</li> <li>Identify and use the materials for mulching</li> <li>Follow the mulching technique</li> <li>Understand the types of weed</li> </ul>	Marker, Laptop, projector, mulching materials, Chemicals, pruning tools /equipments,

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	10:00 <b>Practical Duration</b> (hh:mm) 6:00 <b>Corresponding NOS Code</b> AGR/No316	<ul style="list-style-type: none"> <li>Perform the Weeding process –Manual weeding/ mechanized/ chemical spray</li> <li>Understand and practice the inter cropping</li> <li>Select the suitable inter crop with the intention of high yield/ productivity</li> <li>Understand the importance of pruning technique</li> <li>Perform the Pruning for betterment of plant and yield</li> <li>Understand and use the plant growth regulators</li> </ul>	growth regulators
5	<b>Nutrient Management in Fruit Crops</b> <b>Theory Duration</b> (hh:mm) 10:00 <b>Practical Duration</b> (hh:mm) 13:00 <b>Corresponding NOS Code</b> AGR/No307	<ul style="list-style-type: none"> <li>Understand the Nutrient requirement for the cultivation of Mango fruit</li> <li>Understand and perform the soil sampling for test</li> <li>Understand the Micro and Macro Nutrients in soil</li> <li>Understand the required fertilizer dosage for the nutrient enrichment in soil</li> <li>Understand the method of nitrogen fixation in soil</li> <li>Understand the various soil microorganisms beneficial for the nutrient enrichment in soil</li> <li>Use the bio fertilizer/organic manure in the cultivation of fruit crop</li> <li>Estimate the quantity of fertilizer to be applied at various stages in relation to NPK and other secondary nutrients.</li> <li>It Maintain the record of application of fertilizers and intervals</li> </ul>	White Board, Marker, Laptop, projector, Sprayer, fertilizers, irrigation tools & equipments, disposable bottles
6	<b>Integrated Pest and Disease Management for Fruit Crops</b> <b>Theory Duration</b> (hh:mm) 10:00 <b>Practical Duration</b> (hh:mm) 15:00 <b>Corresponding NOS Code</b> AGR/No308	<ul style="list-style-type: none"> <li>Understand the major pests and disease in Mango</li> <li>Understand the Characters of different insect pests</li> <li>Understand the symptoms of and precaution measures for different diseases</li> <li>Follow the Package of Practice for the Mango Cultivation</li> <li>Understand the suitable chemical for the insect pest and diseases attack</li> <li>Identify, select and place the different insect traps in the field</li> <li>Understand the importance of Integrated Pest and Disease Management</li> <li>Perform the Integrated Pest and Disease Management</li> </ul>	White Board, Marker, Laptop, projector, chemicals, traps, sprayer, mask, gloves
7	<b>Irrigation Management for Fruit Crops</b>	<ul style="list-style-type: none"> <li>Understand the Water requirement for the cultivation of fruit crop</li> </ul>	White Board, Marker, Laptop,

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	<p><b>Theory Duration</b> (hh:mm) 10:00</p> <p><b>Practical Duration</b> (hh:mm) 15:00</p> <p><b>Corresponding NOS Code</b> AGR/No309</p>	<ul style="list-style-type: none"> <li>Plan for the Irrigation system</li> <li>Understand the importance of fertigation and perform as and when required</li> <li>Understand the root spreading of the Mango Plant</li> <li>Understand the soil texture, porosity etc</li> <li>Understand the importance of and perform the water drainage in the field</li> <li>Understand the effects of water clogging in the field</li> <li>Understand the required optimum moisture level in the field for Mango Fruit cultivation</li> <li>Prepare Irrigation Schedule</li> <li>Perform the Irrigation Management</li> </ul>	projector, irrigation equipments,
8	<p><b>Harvest and post harvest Management of Citrus fruit</b></p> <p><b>Theory Duration</b> (hh:mm) 10:00</p> <p><b>Practical Duration</b> (hh:mm) 15:00</p> <p><b>Corresponding NOS Code</b> AGR/No317</p>	<ul style="list-style-type: none"> <li>Do's and don'ts during crop harvesting</li> <li>Harvesting of the crop: Crop maturity, moisture content during harvesting, Size of the fruit, colour, time of harvesting etc</li> <li>Understand and practice the proper method of harvesting and handling of fruits</li> <li>Understand about the physical admixture during harvesting and post harvesting process</li> <li>Understand the chemical properties of the citrus fruit</li> <li>Understand the normal shelf life of the Citrus fruit</li> <li>Understand the importance of Post harvest Management</li> <li>Perform the pre cooling technique for the harvested fruit crops</li> <li>Perform the Grading of harvested fruits</li> <li>Identify and use the tools/equipments required for the packing of fruits</li> <li>Practice the packing of the fruits</li> <li>Make arrangements for the Transportation of the packed fruits</li> </ul>	White Board, Marker, Laptop, projector, pre cooling chamber, packing materials, dividers,
9	<p><b>Basic farm management</b></p> <p><b>Theory Duration</b> (hh:mm) 4:00</p> <p><b>Practical Duration</b> (hh:mm) 6:00</p> <p><b>Corresponding NOS Code</b> AGR/N9901</p>	<ul style="list-style-type: none"> <li>Estimate the cost of production of Mango Plantation</li> <li>Estimate the required investment</li> <li>Practice Farm management- Soil testing, selection of crop variety, Crop Calendar, Crop rotation, intercrops, schedule for fertilizer, pesticide/chemical application, irrigation schedule, harvesting schedule etc</li> <li>Identify the near market area and keep update on the market prices</li> <li>Keep record on the investment and</li> </ul>	White Board, Marker, Laptop, projector, record keeping book,

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		expenditures	
10	<b>Assimilating market information</b>  <b>Theory Duration</b> (hh:mm) 4:00  <b>Practical Duration</b> (hh:mm) 4:00  <b>Corresponding NOS Code</b> AGR/N9902	<ul style="list-style-type: none"> <li>Understand the suitable market platform for Mango crops</li> <li>Collect the Market information from the reliable sources</li> <li>Understand the right time, place for the market of the produce</li> <li>Analyse the market information</li> </ul>	White Board, Marker, Laptop, projector,
11	<b>Maintain Health &amp; Safety at the work place</b>  <b>Theory Duration</b> (hh:mm) 2:00  <b>Practical Duration</b> (hh:mm) 5:00  <b>Corresponding NOS Code</b> AGR/N9903	<ul style="list-style-type: none"> <li>Perform General safety Rules</li> <li>Gain Knowledge of various health hazards relevant to workplace and basic first aid training.</li> <li>Understand the basic safety checks and other common reported hazards before all farm operation</li> <li>Understand, identify and study the use of equipment, processing machine and materials safely and correctly</li> <li>Understand and handle the emergency situation in workplace and during any farm operation</li> </ul>	White Board, Marker, Laptop, projector, Nose masks, first aid kit,
	<b>Total Duration:</b>  <b>Theory Duration</b> (hh:mm) <b>80:00</b>  <b>Practical Duration</b> (hh:mm) <b>100:00</b>	<b>Unique Equipment Required:</b> White Board, Marker, Laptop, projector, Record Keeping Book, chemicals, budding knife, grafting knife, dormant scions, Tying material such as grafting tape, adhesive tape, electrician's ber tape or rubber strips, land leveler, digger, spade, pruning shears, chemicals, traps, sprayer, mask, gloves, irrigation equipments, pre cooling chamber, packing materials, dividers	

Grand Total Course Duration: **180 Hours, 0 Minutes**

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



## Trainer Prerequisites for Job role :"Citrus Fruit Grower" mapped to Qualification Pack: "AGR/Q0303, v1.0"

Sr. No.	Area	Details
1	<b>Description</b>	Trainer is responsible for providing the education and skills development training on Citrus fruit cultivation from sowing to harvesting (includes procuring seed material, preparing nursery, cultivating citrus fruit and intercultural operations, harvesting, marketing, etc)
2	<b>Personal Attributes</b>	Trainer should be Subject Matter Specialist. He/ She should have good communication and observation skill, leadership skill, practical oriented skill
3	<b>Minimum Educational Qualifications</b>	Diploma, Bachelor Degree in Agriculture Science
4a	<b>Domain Certification</b>	Certified for Job Role: " <u>Citrus Fruit Grower</u> " mapped to QP: " <u>AGR/Q0303, v1.0</u> ". Minimum accepted score is 80%.
4b	<b>Platform Certification</b>	Certified for the Job Role: "Trainer", mapped to the Qualification Pack: " <u>SSC/Q1402</u> ". Minimum accepted score is 70%
5	<b>Experience</b>	<ul style="list-style-type: none"> <li>• Post graduate with an experience of 1 Year,</li> <li>• Graduate with experience of 3 + Years,</li> <li>• Diploma with relevant experience of 5+ Years.</li> </ul>

### Annexure: Assessment Criteria

<b>Assessment Criteria</b>	
<b>Job Role</b>	Citrus Fruit Grower
<b>Qualification Pack</b>	AGR/Q0303, v1.0
<b>Sector Skill Council</b>	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	Assessment Criteria	Total	Out	Marks Allocation
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Outcome		Marks	Of	Theory	Skills Practical
1. AGR/No314 Prepare land for citrus fruit cultivation	PC1. select site for cultivation of citrus fruit (based on adequacy of sunlight, water, protection from winds etc.)	60	10	5	5
	PC2. soil testing from authorized centres only		15	7	8
	PC3. prepare the land / terrace with appropriate tilth		20	10	10
	PC4. level the land / terrace and removal of weeds		15	8	7
<b>Total</b>			<b>60</b>	<b>30</b>	<b>30</b>
2. AGR/No315 Perform propagation & transplantation	PC1. select the seeds of appropriate variety	60	4	2	2
	PC2. identify the authorized centre for purchasing of seed		2	1	1
	PC3. procure the seed in appropriate quantity		1	1	0
	PC4. identify types of nursery to be adopted (open or contained)		2	1	1
	PC5. make soil free from soil borne pathogens (use of copper + lime mixture)		3	1	2
	PC6. perform soil solarization		3	2	1
	PC7. use sterilized plastic trays for rootstock seedlings		1	1	0
	PC8. treat seed before sowing		4	2	2
	PC9. sow seeds at appropriate depth and spacing		2	1	1
	PC10. selection of nucellar stock selection from observation		4	1	3
	PC11. transplant selected nucellar stock in secondary nursery		2	1	1
	PC12. monitor regularly for soil borne pathogens		2	1	1
	PC13. select mother plant through extensive surveys		3	2	1
	PC14. select healthy mother plant of appropriate age		2	1	1
	PC15. select budwood from fairly mature plant of the desired cultivar		3	1	2
	PC16. trim the budwood to ideal height		2	1	1
	PC17. select appropriate tools for budding operation (razor, tape, stone, etc)		2	1	1
	PC18. identify type of budding operations ("t" or "shield" or "shoot tip grafting" method)		3	2	1
	PC19. conduct budding when rootstock has attained suitable height		3	2	1
	PC20. wrap with tape after operation		1	0	1
	PC21. irrigate the budded plant		2	1	1

	PC22. apply urea to budded plant		2	1	1
	PC23. prepare the pits with appropriate dimensions in the main field		2	1	1
	PC24. add organic and chemical fertilizer		2	1	1
	PC25. transplant the budded plant at appropriate depth		3	1	2
	<b>Total</b>		<b>60</b>	<b>30</b>	<b>30</b>
3. AGR/No316 Perform intercultural Operations	PC1. mulch the plant with appropriate material (organic & inorganic)	<b>90</b>	10	5	5
	PC2. mulch the plant at appropriate stage		5	2	3
	PC3. mulch the plant with appropriate technique		5	2	3
	PC4. identify the types of weed in the plant at various stages		6	3	3
	PC5. maintain records of the weed and share it with experts		6	3	3
	PC6. select appropriate weed resistant citrus fruit cultivar		5	3	2
	PC7. weed at appropriate time & stage to avoid crop damage		5	2	3
	PC8. control& manage weed through cultural or preventive, physical or mechanical and chemical measures		8	4	4
	PC9. intercrop the citrus plant with suitable crops (French bean, rice bean, etc)		6	3	3
	PC10. intercrop the plant at appropriate time and stage		4	2	2
	PC11. prune the plant at appropriate stage		5	3	2
	PC12. prune the plant at appropriate time		4	2	2
	PC13. prune the plant with appropriate equipments and with correct technique		5	3	2
	PC14. apply growth regulators at appropriate stage		8	4	4
	PC15. apply plant with right type of growth regulators and in correct dosage		8	4	4
	<b>Total</b>		<b>90</b>	<b>45</b>	<b>45</b>
4. AGR/No307 Nutrient management in fruit crops	PC1. understand the basic macro & micro nutrients with their functions	<b>60</b>	15	7	8
	PC2. test soil to determine its nutrient and fertilizer needs from authorized laboratory		10	5	5
	PC3. collect soil testing report		5	3	2
	PC4. select appropriate organic fertilizer including farm yard manure for its application		10	5	5
	PC5. apply fertilizer at various stages of plant cycle		10	5	5

	PC6. application of micro nutrients based on soil testing report		10	5	5
	<b>Total</b>		<b>60</b>	<b>30</b>	<b>30</b>
5. AGR/No308 Integrated insect, pest and disease management for fruit crops	PC1. understand the common pest in fruit cultivation	<b>90</b>	5	2	3
	PC2. identify the various pests in the specific fruit crop such as flower and leaf webber, citrus black fly, mealy bugs, etc		5	2	3
	PC3. identify the stage of crop when the pests attack		4	2	2
	PC4. identify the location on the crop where the pests will attack		4	2	2
	PC5. identify and document the pest behaviour		3	2	1
	PC6. document the preventive measures for the pests		3	1	2
	PC7. adopt direct pest control methods		5	3	2
	PC8. adopt promotion of natural enemies to the various pests that can control the same naturally		5	2	3
	PC9. prepare a pest calendar with all pest characteristics for fruit crop in relation to different stages of growth		3	2	1
	PC10. identify the specific disease in the specific fruit crop like powdery mildew, root stock-end rot, powdery mildew, scooty mould etc		4	2	2
	PC11. identify the stage of crop when it is vulnerable to disease		5	2	3
	PC12. identify the location on the crop where the disease will occur		5	3	2
	PC13. identify the signs and symptoms for the diseases		6	3	3
	PC14. identify the mode of disease transfer		5	3	2
	PC15. ascertain the appropriate pest management techniques such as pheromone traps, light traps, bird perches, sticky traps		8	4	4
	PC16. use appropriate chemicals in right quantities		8	4	4
	PC17. use of pest and disease resistant varieties		4	2	2
	PC18. use preventive techniques like water logging, destruction of infected plant debris, pruning, etc		8	4	4
	<b>Total</b>		<b>90</b>	<b>45</b>	<b>45</b>
6. AGR/No309 Irrigation management for fruit crops	PC1. identify characteristics of good irrigation systems	<b>60</b>	5	3	2
	PC2. ascertain the right amount of water required in the flowering and post flowering phase, germination and maturity phase		5	2	3
	PC3. ascertain the number of days of irrigation required for fruit crop based on the crop stage		8	4	4

	PC4. prepare irrigation schedule by understanding water requirement of the plant and its holding capacity		4	2	2
	PC5. interact with micro irrigation expert on their purpose, usage and advantages		4	2	2
	PC6. incorporate applicable micro irrigation techniques such drip irrigation using appropriate equipments		4	2	2
	PC7. interact with micro irrigation expert for irrigation practices for specific crop		6	3	3
	PC8. ensure water supply to the crop at various life cycles (from sowing to entire life cycle)		6	3	3
	PC9. ensure spread of water in the root zone		6	3	3
	PC10. ensure proper water drainage at all stages		6	3	3
	PC11. identify disease due (root rot) to increase in moisture/water content		6	3	3
	<b>Total</b>		<b>60</b>	<b>30</b>	<b>30</b>
7. AGR/No317 Harvest and post harvest management of citrus fruit	PC1. harvest the fruit at appropriate stage, considering factors such as size, colour, thickness, etc	<b>90</b>	15	7	8
	PC2. harvest the crop at right time (depending on moisture content)		10	5	5
	PC3. identify the appropriate harvesting method		10	5	5
	PC4. perform grading of produce		15	9	6
	PC5. store produce in ideal condition		15	7	8
	PC6. pack the produce in appropriate way		15	7	8
	PC7. market the fruit		10	5	5
	<b>Total</b>		<b>90</b>	<b>45</b>	<b>45</b>
8. AGR/ N9901 Basic farm management	PC1. choose the crop based on agro-climatic condition of the region	<b>30</b>	2	1	1
	PC2. take sample of the soil for testing		1	0	1
	PC3. perform intercropping with suitable and recommended crops (as per the main crop cultivated)		2	1	1
	PC4. perform crop rotation with suitable crops		2	1	1
	PC5. interact with agriculture / extension expert for crop planning		1	1	0
	PC6. choose crop based on the economic advantage		2	1	1
	PC7. maintain crop production activity record		1	1	0
	PC8. maintain crop calendars		1	1	0
	PC9. maintain calendars of weed		1	1	0
	PC10. maintain insect and pest calendar		2	1	1
	PC11. Ascertain total cost of production (land,		2	1	1

	production practices, labour, equipment, fuel, administrative cost etc.)				
	PC12. maintain records of investment and expenditure		2	1	1
	PC13. maintain necessary books of accounts		2	1	1
	PC14. identify government schemes and their eligibility for availing themselves of the same		2	1	1
	PC15. identify the nearest market		2	1	1
	PC16. identify local traders, mandis in the villages and nearby and compare the rates		2	1	1
	PC17. identify market rates of the produce season wise		2	1	1
	PC18. arrange cost-effective transportation of produce to the market.		1	0	1
	<b>Total</b>		<b>30</b>	<b>16</b>	<b>14</b>
9. AGR/N9902 Assimilating market information	PC1. understand the different sources of information at village-level through other farmers, neighbours, relatives, agricultural extension workers, agriculture specialists, concerned government and private departments like gram panchayat, co-operative societies and SHGs etc.	<b>30</b>	1	1	0
	PC2. identify different sources of information at market level through commission agents, mandi samitis and input dealers		1	1	0
	PC3. identify different sources of information through media sources like radio, newspapers, television, magazine internet, SMS in mobile phones etc.		1	0	1
	PC4. identify the appropriate sources of specific market information and proper ways to collect the required information		1	0	1
	PC5. identify the reliable source of information		1	0	1
	PC6. ascertain methods of collecting information through personal visit, telephone, internet and published reports, magazines and articles, workshops, attending seminars and training by agriculture extension service providers		2	1	1
	PC7. ascertain periodicity and cost of assessing market information		2	1	1
	PC8. ascertain availability and non-availability of specific market information		1	0	1
	PC9. perform documentation for analyzing market information		1	0	1
	PC10. evaluate the authenticity of information received		2	1	1

	PC11. analyze the information for taking decision		2	1	1
	PC12. utilize market information for taking cost effective production decisions		2	1	1
	PC13. understand quality-wise and variety-wise prices of different products such as seeds, pest, fertilizer, etc		2	1	1
	PC14. use market information and decide on crop and area to be sown which could result in better productivity for the season		2	1	1
	PC15. utilize market information for taking effective pre-harvesting decisions like seed preparation, land preparation, nutrition management, weed management, pest and diseases management and irrigation management		2	1	1
	PC16. utilize market information for appropriate post-harvesting decision like drying, grading, bagging, transportation, processing and storage		2	1	1
	PC17. decide on marketing parameters like where to sell, when to sell, to whom to sell and what quantity to sell etc. which leads to profit		2	1	1
	PC18. understand benefits derived from market information		1	0	1
	PC19. make projections/future price movements through information sources		1	1	0
	PC20. understand price fluctuations in markets and take appropriate decision		1	1	0
	<b>Total</b>		<b>30</b>	<b>14</b>	<b>16</b>
10. AGR/N9903 Health and safety at the workplace	PC1. undertake basic safety checks before operation of all machinery and vehicles and hazards are reported to the appropriate supervisor	<b>30</b>	2	1	1
	PC2. work for which protective clothing or equipment is required is identified and the appropriate protective clothing or equipment is used in performing these duties in accordance with workplace policy.		2	1	1
	PC3. read and understand the hazards of use and contamination mentioned on the labels of pesticides/fumigants etc		2	1	1
	PC4. Assess risks prior to performing manual handling jobs, and work according to currently recommended safe practice.		2	1	1
	PC5. use equipment and materials safely and correctly and return the same to designated storage when not in use		2	1	1
	PC6. dispose of waste safely and correctly in a designated area		2	1	1



PC7. recognize risks to bystanders and take action to reduce risk associated with jobs in the workplace			3	2	1
PC8. Perform your work in a manner which minimizes environmental damage all procedures and work instructions for controlling risk are followed closely.			2	1	1
PC9. Report any accidents, incidents or problems without delay to an appropriate person and take necessary immediate action to reduce further danger.			1	0	1
PC10. Follow procedures for dealing with accidents, fires and emergencies, including communicating location and directions to emergency.			2	1	1
PC11. follow emergency procedures to company standard / workplace requirements			2	1	1
PC12. use emergency equipment in accordance with manufacturers' specifications and workplace requirements			2	1	1
PC13. provide treatment appropriate to the patient's injuries in accordance with recognized first aid techniques			2	1	1
PC14. recover (if practical), clean, inspect/test, refurbish, replace and store the first aid equipment as appropriate			2	1	1
PC15. report details of first aid administered in accordance with workplace procedures.			2	1	1
			<b>30</b>	<b>15</b>	<b>15</b>
	<b>TOTAL</b>	<b>600</b>	<b>600</b>	<b>300</b>	<b>300</b>
	<u>Percentage Weightage:</u>			<u>50%</u>	<u>50%</u>
	<u>Minimum Pass% to qualify (aggregate):</u>				<u>60%</u>