







Model Curriculum

Tea Plantation Worker

SECTOR: AGRICULTURE & ALLIED

SUB-SECTOR: AGRICULTURE CROP PRODUCTION OCCUPATION: PLANTATION CROP CULTIVATION

REF ID: AGR/Q0502, V1.0

NSQF LEVEL: 2

Tea Plantation Worker















Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

AGRICULTURE SKILL COUNCIL OF INDIA

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MODEL CURRICULUM

Complying to National Occupational Standards of Job Role/Qualification Pack: 'Tea Plantation Worker' QP No. 'AGR/Qoço2 NSQF Level 2'

Date of Issuance: March 15th, 2015 Valid up to: March 31st, 2016

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

Authorised Signatory (Agriculture Skill Council of India)









Tea Plantation Worker

CURRICULUM/SYLLABUS

This program is aimed at training candidates for the job of a "<u>Tea Plantation Worker</u>", in the "<u>Agriculture & Allied</u>" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Tea Plantation Worker				
Qualification Pack Name & Reference ID. ID	AGR/Q0502, v1.0				
Version No.	1.0 Version Update Date				
Pre-requisites to Training	No entry barrier, 5 th standard pass preferable				
Training Outcomes	 Raise and main treatment, pole of the pruning Harvest the commethod of harm transportation Become well 	versed with Environment Health & Safety: Well ealth and safety measures in terms of personal safety			









This course encompasses 8 out of 8 National Occupational Standards (NOS) of "<u>Tea Plantation Worker</u>" Qualification Pack issued by "<u>Agriculture Skill Council of India</u>".

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Introduction Theory Duration (hh:mm) 5:00 Practical Duration (hh:mm) 0:00	 Understand the General Discipline in the class room (Do's & Don'ts) Understand the Role of a Tea Plantation Worker 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	Corresponding NOS Code Nursery Bed Preparation in Tea Plantation Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 10:00	 Identify, Select and use the tools and equipments for nursery bed preparation Prepare the soil mixture Undertake the soil treatment Prepare the polybags Prepare the Cuttings/ Vegetative Propagations Understand and perform the pre planting activities 	White Board, Marker, Laptop, projector, budding knife, grafting knife, dormant scions, Tying material such as grafting tape, adhesive tape, electrician's ber tape or rubber strips
	Corresponding NOS Code AGR/No508		
3	Land preparation and Transplanting in Tea Plantation Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code AGR/ No509	 Plan the Layout for Tea Plantation Level the land as per the requirement Understand the crop spacing required for Tea Plantation Understand the pits measurement Understand the Pre-planting activities Perform planting activity Understand the soil moisture level required for the plant Understand the importance of shade trees Estimate the manure requirement for the crop Understand the importance of mulching and practice Perform weeding 	Marker, Laptop, projector,
4	Integrated Nutrient Management (scientific word) in Tea Plantation Theory Duration (hh:mm) 10:00	 Understand the Nutrient requirement for the Tea Plantation Understand and perform the soil sampling test Understand the Micro and Macro Nutrients in soil 	White Board, Marker, Laptop, projector,









Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Practical Duration (hh:mm) 16:00 Corresponding NOS Code AGR/No510	 Understand the required fertilizer dosage for the nutrient enrichment in soil Understand the various soil microorganisms beneficial for the nutrient enrichment in soil Use the bio fertilizer/organic manure in the cultivation of Tea Plantation Estimate the quantity of fertilizer to be applied at various stages in relation to NPK and other secondary nutrients. Perform the weeding management Maintain the record of application of fertilizers and intervals 	
5	Training and Pruning in Tea Plantation Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 18:00 Corresponding NOS Code AGR/No511	 Understand the importance of Training and Pruning of Tea Plantation Understand the stages of Training and Pruning Select and follow the right Method of Training and Pruning 	White Board, Marker, Laptop, projector, Sprayer, fertilizers, bio fertilizers,
6	Integrated Pest and Disease Management (scientific word) in Tea Plantation Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 15:00 Corresponding NOS Code AGR/N0512	 Understand the major pests and disease in Tea Plantation Understand the Characters of different insect pests Understand the symptoms and precaution measures for different diseases Understand the suitable chemical for the insect pest and diseases attack Identify, select and place the different insect traps in the field Understand the importance of Integrated Pest and Disease Management Perform the Integrated Pest and Disease Management 	White Board, Marker, Laptop, projector,
7	Irrigation in Tea Plantation Theory Duration (hh:mm) 10:00 Practical Duration	 Understand the Water requirement for the Tea Plantation Plan for the Irrigation system Understand the soil texture, porosity etc Understand the importance of and perform the water drainage in the field Understand the effects of water clogging in the field 	White Board, Marker, Laptop,









Sr. No.	Module	Key Learning Outcomes	Equipment Required
	(hh:mm) 13:00 Corresponding NOS Code AGR/No513	 Prepare Irrigation Schedule Perform the Irrigation Management 	
8	Harvesting in Tea Plantation Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 18:00 Corresponding NOS Code AGR/No514	 Understand and practice the proper method of harvesting Practice the proper method for plucking the leaf Understand the frequency of harvesting Make arrangements for the Transportation 	White Board, Marker, Laptop, projector,
9	Maintain Health & Safety at the work place Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00 Corresponding NOS Code AGR/N9903	 Perform General safety Rules Gain Knowledge of various health hazards relevant to workplace and basic first aid training. Understand the basic safety checks and other common reported hazards before all field operation Understand, identify and study the use of equipment and materials safely and correctly Understand and handle the emergency situation in workplace 	White Board, Marker, Laptop, projector,
	Total Duration: Theory Duration (hh:mm) 80:00 Practical Duration (hh:mm) 110:00	Unique Equipment Required: White Board, Marker, Laptop, projector, budding knife, grafting knife, dormant scions, Tying material such as grafting tape, adhesive tape, electrician's ber tape or rubber strips, Sprayer, fertilizers, bio fertilizers,	

Grand Total Course Duration: 190 Hours, o Minutes

(This syllabus/ curriculum has been approved by <u>Agriculture Skill Council of India</u>)









Trainer Prerequisites for Job role : "Tea Plantation Worker" mapped to Qualification Pack: "AGR/Q0502, v1.0"

Sr. No.	Area	Details
1	Description	Trainer is responsible for providing the education and skills development training related to work in the Tea plantation on a given piece of land right from nuysery preparation to harvesting and storage. He works under the direct monitoring by the supervisor and works based on the instructions of the supervisor.
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/Horticulture Science
4a	Domain Certification	Certified for Job Role: " <u>Tea Plantation Worker</u> " mapped to QP: <u>"AGR/Qo502, v1.0"</u> . 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	 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	Tea Plantation Worker
Qualification Pack	AGR/Q0502, v1.0
Sector Skill Council	Agriculture

Sr.	Guidelines for Assessment
No.	
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 canter based on this criteria
5	To pass the Qualification Pack, every trainee should score a minimum of 50% 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

Tea Plantation Worker









	Assessable Outcome Assessment Criteria (500)		Out Of	Marks Allocation	
4.460/10500	204 14:			Theory	Skills Practical
1.AGR/N0508 Nursery Bed	PC1. Mix sand and soil (Preparation of Soil)		10	5	5
Preparation in	PC2. Prepare poly bags		10	3	3
Tea Plantation	, , , ,				
			5	2	3
	PC3.Prepare Nucleus areas for				
	obtaining VP (vegetative propagation) cuttings		10	5	5
	PC4. Sow seeds or vegetative	50	10	3	5
	clonal propagation		_	_	_
	PC5. Prepare cuttings for raising		5	3	2
	nursery		10	5	5
	PC6. Harden the seedling or		10	<u> </u>	3
	cuttings before taking to field for				
	planting		10	5	5
2 . 22 /	Total		50	25	25
2.AGR/N0509 Land	PC1. Clean the field for planting of new tea plants after rehabilitation				
preparation	by green crop				
and			5	3	2
Transplanting	PC2. Level the field through				
in Tea Plantation	mechanical and manual means after ploughing & sub-soiling				
i idiitation	arter ploughinger sub-solling				
			5	3	2
	PC3. Construct drains	100			
	DC4 Lavard of the field		10	5	5
	PC4. Layout of the field				
			10	5	5
	PC5. Prepare field for planting			_	
			5	3	2
	PC6. Put out stakes (markers) for				
	planting pits				
			10	5	5
	PC7. Making Pits for planting				
			10	_	۔ ا
			10	5	5









PC8. Apply planting manure as per recommendation				
200 21		5	2	3
PC9. Plant tea plants		5	2	3
PC10. Plant shade trees at suitable recommended distances		3		3
PC11. Perform mulching & required field practices		10	5	5
		10	5	5
PC12. Control weeds		10		5
		10	_	5
PC13. Infilling vacancy		10	<u> </u>	3
		_	2	2
Tatal				3
		100	50	50
recommended sampling				
procedure from the field (V/Z/W		4-	•	_
		15	8	7
		5	2	3
· · · · · · · · · · · · · · · · · · ·				
testing laboratory for unarysis		5	2	3
PC4. Amend soil as per need under				
		5	3	2
PC5. Apply the FYM to the soil as				
per recommended dosage and	100			
• • • • • • • • • • • • • • • • • • • •		10	5	5
PC6. Adopt various cultural				
•				
		10	5	5
•		10	<u> </u>	3
manure and fertilizers as ground				
application		10	5	5
recommendation		15	8	7
. ,		15	8	7
	PC9. Plant tea plants PC10. Plant shade trees at suitable recommended distances PC11. Perform mulching & required field practices PC12. Control weeds PC13. Infilling vacancy Total PC1. Take soil as per the recommended sampling procedure from the field (V/Z/W shape) PC2. Dry the soil and prepare samples as per procedure PC3. Pack and label the soil sample for submission to nearby soil testing laboratory for analysis PC4. Amend soil as per need under management guidance & recommendation PC5. Apply the FYM to the soil as per recommended dosage and procedure before planting and during crop cultivation (if required) PC6. Adopt various cultural practices that enhances the soil nutrient status for the benefit of crop stand PC7. Apply recommended dose of manure and fertilizers as ground application PC8. Apply micro-nutrients by	PC9. Plant tea plants PC10. Plant shade trees at suitable recommended distances PC11. Perform mulching & required field practices PC12. Control weeds PC13. Infilling vacancy Total PC1. Take soil as per the recommended sampling procedure from the field (V/Z/W shape) PC2. Dry the soil and prepare samples as per procedure PC3. Pack and label the soil sample for submission to nearby soil testing laboratory for analysis PC4. Amend soil as per need under management guidance & recommendation PC5. Apply the FYM to the soil as per recommended dosage and procedure before planting and during crop cultivation (if required) PC6. Adopt various cultural practices that enhances the soil nutrient status for the benefit of crop stand PC7. Apply recommended dose of manure and fertilizers as ground application PC8. Apply micro-nutrients by	recommendation 5 PC9. Plant tea plants 5 PC10. Plant shade trees at suitable recommended distances 10 PC11. Perform mulching & required field practices 10 PC12. Control weeds 10 PC13. Infilling vacancy 5 Total 100 PC1. Take soil as per the recommended sampling procedure from the field (V/Z/W shape) 15 PC2. Dry the soil and prepare samples as per procedure 5 PC3. Pack and label the soil sample for submission to nearby soil testing laboratory for analysis 5 PC4. Amend soil as per need under management guidance & recommended dosage and procedure before planting and during crop cultivation (if required) 10 PC6. Adopt various cultural practices that enhances the soil nutrient status for the benefit of crop stand 10 PC7. Apply recommended dose of manure and fertilizers as ground application 10 PC8. Apply micro-nutrients by	recommendation 5 2 PC9. Plant tea plants 5 2 PC10. Plant shade trees at suitable recommended distances 10 5 PC11. Perform mulching & required field practices 10 5 PC12. Control weeds 10 5 PC12. Control weeds 10 5 PC13. Infilling vacancy 5 2 Total 10 50 PC1. Take soil as per the recommended sampling procedure from the field (V/Z/W shape) 15 8 PC2. Dry the soil and prepare samples as per procedure 5 2 PC3. Pack and label the soil sample for submission to nearby soil testing laboratory for analysis 5 2 PC4. Amend soil as per need under management guidance & recommendation 5 3 PC5. Apply the FYM to the soil as per recommended dosage and procedure before planting and during crop cultivation (if required) 10 5 PC6. Adopt various cultural practices that enhances the soil nutrient status for the benefit of crop stand 10 5 PC7. Apply recommended dose of manure and fertilizers as ground application 10 5 PC8. Apply micro-nutrients by









	PC10. Remove rogue infected plant/ plant parts		5	2	3
	PC11. Perform weeding manually / herbicides as per the		3		3
	recommendations and instructions		10	5	5
	Total		100	50	50
4.AGR/N0511 Training and Pruning in Tea Plantation	PC1.Undertake centering (or decentring as it is commonly called) (this promotes the growth of auxiliary buds and lateral branches are formed).		10	5	5
	PC2.Train growing branches by two stage tipping for further lateral branch formation, good spread and establishment of				
	plucking surface		10	5	5
	PC3.Take up formative pruning for young tea plant as per pruning cycle	50	10	5	5
	PC4.Take up Table formation for bushes				
			10	5	5
	PC5.Bring planted area in the Pruning Cycle to keep the bushes continuously under vegetative		10	5	5
	stage Total		50	25	25
5.AGR/N0512	PC1.Identify signs and symptoms		30		23
Integrated	of damage		10	5	5
Pest and Disease Management (scientific	PC2.Identify behavior of the pest (like diurnal or nocturnal, egg laying behavior, attraction to coloursetc)		10	5	5
word) in Tea Plantation	PC3.Identify natural enemies of		10		3
Plantation	the pests	75	10	5	5
	PC4.Identify signs and symptoms of different diseases	73	15	5	10
	PC5.Identify mode of transmission (implements, vectors, water, rain, wind)		10	5	5
	PC6.Take up chemical and non- chemical approaches to pest and				
	disease control		20	10	10
	Total		75	35	40
6.AGR/N0513 Irrigation in Tea Plantation	PC1.Irrigate based on the soil type and land slope and as per the recommendations / instruction of	50	20	45	45
	the supervisor		30	15	15









	PC2.Maintain drainage system by				
	regular cleaning and weeding		20	10	10
	Total		50	25	25
7.AGR/N0514	PC1.Leaf plucking at appropriate				
Harvesting in	stage	50	30	15	15
Tea Plantation	PC2.Perform periodical harvesting		20	10	10
	Total		50	25	25
8.AGR/N9903	PC1.Undertake basic safety checks		30	25	25
Health &	before operation of all machinery				
Safety at the	and vehicles and hazards are				
workplace	reported to the appropriate				
	supervisor		3	1	2
	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		2	1	2
	policy. PC3.Read and understand the		3	1	2
	hazards of use and contamination				
	mentioned on the labels of				
	pesticides/fumigants etc		3	1	2
	PC4.Assess risks prior to				
	performing manual handling jobs,				
	and work according to currently				
	recommended safe practice.		1	1	0
	PC5.Use equipment and materials				
	safely and correctly and return the	25			
	same to designated storage when				
	not in use		3	1	2
	PC6.Dispose of waste safely and				
	correctly in a designated area		1	1	0
	PC7.Recognise risks to bystanders				
	and take action to reduce risk				
	associated with jobs in the workplace		1	1	0
	PC8.Perform your work in a		1		0
	manner which minimizes				
	environmental damage all				
	procedures and work instructions				
	for controlling risk are followed				
	closely.		1	1	0
	PC9.Report any accidents,				
	incidents or problems without				
	delay to an appropriate person				
	and take necessary immediate			_ [_
	action to reduce further danger.		1	1	0









PC10.Follow procedures for dealing with accidents, fires are emergencies, includir communicating location are directions to emergency.	ıg 💮	1	1	0
PC11.Follow emergend procedures to company standard workplace requirements	-	1	1	0
PC12.Use emergency equipme in accordance with manufacturer specifications and workplace requirements	s'	3	1	2
PC13.Provide treatme appropriate to the patient injuries in accordance wirecognized first aid techniques	's :h	1	1	0
PC14. Recover (if practical), clea inspect/test, refurbish, replace and store the first aid equipment as appropriate	ce	1	1	0
PC15.Report details of first a administered in accordance with workplace procedures.		1 25	1 15	0
Total	500	500	250	250
Percentage Weightage:			50%	50%
Minimum Pass% to qualit	Y		1	<u>60%</u>