

Instruction Sheet for the Candidate

Qualification	Tunnel Farming, Greenhouse & Agribusiness (Level-5)
Competency Standard	<ol style="list-style-type: none"> 1. Select irrigation System 2. Apply flood irrigation 3. Install drip irrigation system 4. Perform post care 5. Perform installation of fertigation system 6. Manage soil fertility
Purpose of Assessment	Summative Assessment
Candidate Details	Name_____ Registration/Roll Number_____
Guidance for Candidate	To meet this standard, you are required to complete the following within time frame (for practical demonstration & assessment): Install appropriate irrigation system and manage soil fertility for off season vegetable production
Time: 03 Hrs.	During a practical assessment, under observation by an assessor, you are required to: <ol style="list-style-type: none"> 1. Perform field preparation for off season vegetable production 2. Prepare organic media 3. Prepare furrows/ridges/beds 4. Perform mulching 5. Prepare planting holes 6. Shift organic fertilizer in the holes 7. Perform seeding/transplanting 8. Prepare layout for drip irrigation 9. Install drip irrigation system 10. Install fertigation system 11. Apply inorganic fertilizer 12. Apply irrigation and fertigation
Minimum Evidence Required	

Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Tunnel Farming, Greenhouse & Agribusiness (Level-5)
Competency Standard	1. Select irrigation System 2. Apply flood irrigation 3. Install drip irrigation system 4. Perform post care 5. Perform installation of fertigation system 6. Manage soil fertility
Purpose of Assessment	Summative Assessment
Assessment Task	Install appropriate irrigation system and manage soil fertility for off season tomato production

I can.....

Performance Criteria	Yes	No
1. Perform field preparation for off season vegetable production	<input type="checkbox"/>	<input type="checkbox"/>
2. Prepare organic media	<input type="checkbox"/>	<input type="checkbox"/>
3. Prepare furrows/ridges/beds	<input type="checkbox"/>	<input type="checkbox"/>
4. Perform mulching	<input type="checkbox"/>	<input type="checkbox"/>
5. Prepare planting holes	<input type="checkbox"/>	<input type="checkbox"/>
6. Shift organic fertilizer in the holes	<input type="checkbox"/>	<input type="checkbox"/>
7. Perform seeding/transplanting	<input type="checkbox"/>	<input type="checkbox"/>
8. Prepare layout for drip irrigation	<input type="checkbox"/>	<input type="checkbox"/>
9. Install drip irrigation system	<input type="checkbox"/>	<input type="checkbox"/>
10. Install fertigation system	<input type="checkbox"/>	<input type="checkbox"/>
11. Apply inorganic fertilizer	<input type="checkbox"/>	<input type="checkbox"/>
12. Apply irrigation and fertigation	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature_____ Assessor's Signature_____

Date: _____

Assessors Judgment Guide

Qualification	Tunnel Farming, Greenhouse & Agribusiness (Level-5)
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Purpose of Assessment	Summative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Signature: _____
Assessment Outcome	<div style="display: flex; justify-content: space-between; align-items: center;"> COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> </div> Name of the Assessor _____ Assessor's code: _____ Signature: _____

Assessment Summary (to be filled by the assessor)							
Activity	Method					Result	
	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Nature of Activity							
Practical Skill Demonstration			✓				
Knowledge Assessment		✓					
Other Requirement							

Observation Checklist

Assessment Task	Install appropriate irrigation system and manage soil fertility for off season tomato production			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Perform field preparation for off season vegetable production	<input type="checkbox"/>	<input type="checkbox"/>	
2.	Prepare organic media	<input type="checkbox"/>	<input type="checkbox"/>	
3.	Prepare furrows/ridges/beds	<input type="checkbox"/>	<input type="checkbox"/>	
4.	Perform mulching	<input type="checkbox"/>	<input type="checkbox"/>	
5.	Prepare planting holes	<input type="checkbox"/>	<input type="checkbox"/>	
6.	Shift organic fertilizer in the holes	<input type="checkbox"/>	<input type="checkbox"/>	
7.	Perform seeding/transplanting	<input type="checkbox"/>	<input type="checkbox"/>	
8.	Prepare layout for drip irrigation	<input type="checkbox"/>	<input type="checkbox"/>	
9.	Install drip irrigation system	<input type="checkbox"/>	<input type="checkbox"/>	
10.	Install fertigation system	<input type="checkbox"/>	<input type="checkbox"/>	
11.	Apply inorganic fertilizer	<input type="checkbox"/>	<input type="checkbox"/>	
12.	Apply irrigation and fertigation	<input type="checkbox"/>	<input type="checkbox"/>	
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	Tunnel Farming, Greenhouse & Agribusiness (Level-5)
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Purpose of Assessment	Summative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
Assessment Outcome	<div style="display: flex; justify-content: space-around; align-items: center;"> COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> </div> Name of the Assessor: _____ Assessor's code: _____ Signature of the Assessor: _____

Candidate's response is not required to be identical, but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of topic and its application.

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	Enlist different water sources?		
2.	Enlist different irrigation methods?		

3.	Explain water deficiency symptoms?		
4.	Narrate the use of different irrigation equipment?		
5.	Explain the use of hygrometer to evaluate water deficiency in soil?		
6.	What are the survey techniques for cost analysis?		
7.	Which agro climatic conditions are required to select a site?		
8.	Describe in detail the sowing plan as per irrigation layout?		

9.	Discuss required safety standards?		
10	What are the post-harvest losses of irrigation system?		
11	What are post-harvest management techniques?		
12	Discuss the process of drainage?		
13	Enlist the types of fertilizers?		

14	What is the work plan for fertigation installation?		
15	Differentiate between conventional and modern fertigation system?		
16	What are the materials required for fertigation system?		
17	Discuss health and safety protocols involved?		
18	What are the methods for soil and water sampling?		
19	How to store soil and water sample?		

20	How to use organic fertilizers?		
21	How to prepare soil and water samples for laboratory test?		

Feedback to the Candidate	
Candidate's Signature_____	Assessor's Signature _____