

Instruction Sheet for the Candidate

Qualification	Tunnel Farming, Greenhouse & Agribusiness(Level-5)
Competency Standard	<ol style="list-style-type: none"> 1. Select and procure material required for green house 2. Install Greenhouse structures 3. Maintain Greenhouse structure 4. Operate Greenhouse components 5. Perform Greenhouse Operations 6. Perform IPM and IDM
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): <ol style="list-style-type: none"> 1. Perform fitting and construction of greenhouse structures and their maintenance 2. Perform management practices for greenhouse ‘
Time: 04 Hrs.	During a practical assessment, under observation by an assessor, you are required to : <ul style="list-style-type: none"> • Ensure Procurement of structure material i.e. iron, glass • Perform iron rods (Sarya) bending and fitting on ground surface for green house. • Perform shaping and bending of galvanized pipes for greenhouse • Perform earth civil work for grouting of basal anchors. • Develop wire stretchers and adjusting as per greenhouse. • Adjust sheet lock jaws for polythene/glass adjustment. • Erect/ Install structures and connecting arches. • Install plastic polythene/glass and anti-insect sheets. • Perform black polythene/natural mulching and sheet punching. • Install hanging wires and crop nets as per requirement. • Perform measures to control humidity in green house • Perform measures to control temperature in the green house • Perform processing operation of greenhouse components
Minimum Evidence Required	

	<ul style="list-style-type: none"> • Ensure transplanting/sowing material for greenhouse production • Perform media preparation for transplanting/sowing • Apply irrigation and nutrition • Apply weedicides or manual eradication of weeds • Perform IPM practices • Perform IDM techniques.
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Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Tunnel Farming, Greenhouse & Agribusiness(Level-5)
Competency Standard	<ol style="list-style-type: none"> 1. Select and procure material required for green house 2. Install greenhouse structures 3. Maintain greenhouse structure 4. Operate greenhouse components 5. Perform green House Operations 6. Perform IPM and IDM
Purpose of Assessment	Summative Assessment
Assessment Task	<ol style="list-style-type: none"> 1. Perform fitting and construction of greenhouse structures and their maintenance 2. Manage and perform greenhouse operation

I can.....

Performance Criteria	Yes	No
1. Ensure Procurement of structure material i.e. iron, glass	<input type="checkbox"/>	<input type="checkbox"/>

2. Perform iron rods (Sarya) bending and fitting on ground surface for green house.	<input type="checkbox"/>	<input type="checkbox"/>
3. Perform shaping and bending of galvanized pipes for greenhouse	<input type="checkbox"/>	<input type="checkbox"/>
4. Perform earth civil work for grouting of basal anchors.	<input type="checkbox"/>	<input type="checkbox"/>
5. Develop wire stretchers and adjusting as per greenhouse requirement	<input type="checkbox"/>	<input type="checkbox"/>
6. Adjust sheet lock jaws for polythene/glass adjustment	<input type="checkbox"/>	<input type="checkbox"/>
7. Erect/ Install of structures and connecting arches.	<input type="checkbox"/>	<input type="checkbox"/>
8. Install plastic polythene/glass and anti-insect sheets.	<input type="checkbox"/>	<input type="checkbox"/>
9. Perform black polythene/natural mulching and sheet punching	<input type="checkbox"/>	<input type="checkbox"/>
10. Install of hanging wires and crop nets as per requirement	<input type="checkbox"/>	<input type="checkbox"/>
11. Perform measures to control humidity in green house	<input type="checkbox"/>	<input type="checkbox"/>
12. Perform measures to control temperature in the green house	<input type="checkbox"/>	<input type="checkbox"/>
13. Perform processing operation of greenhouse components	<input type="checkbox"/>	<input type="checkbox"/>
14. Ensure transplanting/sowing material for greenhouse production	<input type="checkbox"/>	<input type="checkbox"/>
15. Perform media preparation for transplanting/sowing	<input type="checkbox"/>	<input type="checkbox"/>
16. Apply irrigation and nutrition	<input type="checkbox"/>	<input type="checkbox"/>
17. Apply weedicides or manual eradication of weeds	<input type="checkbox"/>	<input type="checkbox"/>
18. Perform IPM practices	<input type="checkbox"/>	<input type="checkbox"/>
19. Perform IDM techniques	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature_____ Assessor's Signature_____

Date: _____

Assessors Judgment Guide

Qualification	Tunnel Farming, Greenhouse & Agribusiness(Level-5)
Competency Standard	<ol style="list-style-type: none"> 1. Select and procure material required for green house 2. Install greenhouse structures 3. Maintain greenhouse structure

	4. Operate greenhouse components 5. Perform greenhouse Operations 6. Perform IPM and IDM
Purpose of Assessment	Summative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Signature: _____
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor _____ Assessor's code: _____ Signature: _____

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

Observation Checklist

Assessment Task	1. Perform fitting and construction of greenhouse structures and their maintenance 2. Perform management practices for greenhouse
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During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Ensure procurement of structure material i.e. iron, glass	<input type="checkbox"/>	<input type="checkbox"/>	
2.	Perform iron rods (Sarya) bending and fitting on ground surface for low tunnels	<input type="checkbox"/>	<input type="checkbox"/>	
3.	Perform shaping and bending of galvanized pipes for greenhouse	<input type="checkbox"/>	<input type="checkbox"/>	
4.	Perform earth civil work for grouting of basal anchors.	<input type="checkbox"/>	<input type="checkbox"/>	
5.	Develop wire stretchers and adjusting as per greenhouse requirement	<input type="checkbox"/>	<input type="checkbox"/>	
6.	Adjust sheet lock jaws for polythene/glass adjustment	<input type="checkbox"/>	<input type="checkbox"/>	
7.	Erect/Install structures and connecting arches.	<input type="checkbox"/>	<input type="checkbox"/>	
8.	Install plastic polythene/glass and anti-insect sheets.	<input type="checkbox"/>	<input type="checkbox"/>	
9.	Perform black polythene/natural mulching and sheet punching	<input type="checkbox"/>	<input type="checkbox"/>	
10.	Install hanging wires and crop nets.	<input type="checkbox"/>	<input type="checkbox"/>	
11.	Perform measures to control humidity in greenhouse	<input type="checkbox"/>	<input type="checkbox"/>	
12.	Perform measures to control temperature in the greenhouse	<input type="checkbox"/>	<input type="checkbox"/>	
13.	Perform processing operation of greenhouse components	<input type="checkbox"/>	<input type="checkbox"/>	
14.	Ensure transplanting/sowing material for greenhouse production	<input type="checkbox"/>	<input type="checkbox"/>	
15.	Perform media preparation for transplanting/sowing	<input type="checkbox"/>	<input type="checkbox"/>	
16.	Apply irrigation and nutrition	<input type="checkbox"/>	<input type="checkbox"/>	
17.	Apply weedicides or manual eradication of weeds	<input type="checkbox"/>	<input type="checkbox"/>	
18.	Perform IPM practices	<input type="checkbox"/>	<input type="checkbox"/>	
19.	Perform IDM techniques	<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)
Competency Standard	<ol style="list-style-type: none"> 1. Select and procure material required for green house 2. Install greenhouse structures 3. Maintain greenhouse structure 4. Operate greenhouse components 5. Perform greenhouse Operations 6. Perform IPM and IDM
Purpose of Assessment	Summative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Candidate 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 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.	How to select the foundation material?		
2.	What is meant by greenhouse?		
3.	Enlist the greenhouse structures/types?		
4.	Define market survey?		
5.	How to conduct market survey?		
6.	Enlist installation steps/procedure for greenhouse?		

7.	What is the difference between lean-to type and even span type installation?		
8.	Define ridge and furrow?		
9.	What is meant by Gothic arch type?		
10.	Which conditions are required for cold frame type?		
11.	Define greenhouse?		
12.	What is the purpose of greenhouse?		

13.	What are the essentials required for greenhouse?		
14.	What are the management practices required to maintain greenhouse structure?		
15.	Which type of crop is grown in greenhouse?		
17.	What is the micro climate?		
18.	How temperature and humidity is maintained in greenhouse?		

19.	Enlist the processing components of green house?		
20.	Enlist the irrigation methods used in greenhouse?		
21.	How to perform labeling of plant material?		
22.	Define growth media?		
23.	How to prepare growing media?		

24.	Which management practices are carried out to perform greenhouse operations?		
26.	Define insect pest?		
27.	What is pest invasion?		
28.	How to differentiate between IPM and IDM?		
30.	Enlist the standards used in IPM and IDM?		

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