

## Instruction Sheet for the Candidate

<b>Qualification</b>	Tunnel Farming, Greenhouse & Agribusiness(Level-5)
<b>Competency Standard</b>	Perform Integrated Pest Management (IPM)
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name_____
	Registration/Roll Number_____
<b>Guidance for Candidate</b>	<p><b>To meet this standard, you are required to complete the following within time frame (for practical demonstration &amp; assessment):</b></p> <ol style="list-style-type: none"> <li>1. Identify pest invasion</li> <li>2. Schedule the implementation of control strategies by IPM</li> <li>3. Perform pest control measures</li> <li>4. Inspect Control measures</li> </ol>
<b>Time: 03 Hrs.</b>	<p>During a practical assessment, under observation by an assessor, you are required to:</p> <ol style="list-style-type: none"> <li>1. <b>Identify pest invasion</b></li> </ol>
<b>Minimum Evidence Required</b>	<ul style="list-style-type: none"> <li>• Identify plant pest and disorders according to prescribed IPM</li> <li>• Identify the beneficial organisms according to insect orders.</li> <li>• Assess scope and size of the damage according to economic threshold level (ETL)</li> <li>• Follow health and safety standards required</li> </ul> <p><b>2. Schedule the implementation of control strategies by IPM</b></p> <ul style="list-style-type: none"> <li>• Select required control activities according to damage</li> <li>• Identify and arrange tools, equipment, machinery and biological cards for required activity</li> <li>• Ensure risks and hazards management according to safety standards</li> <li>• Ensure Personal Protective Equipment (PPE) according to required operations.</li> <li>• Ensure Eco-friendly procedures according to standards.</li> </ul> <p><b>3. Perform pest control measures</b></p> <ul style="list-style-type: none"> <li>• Identify and arrange required tools and chemicals required to perform IPM activity</li> <li>• Implement IPM standards</li> <li>• Maintain workplace after completion of each activity.</li> <li>• Prepare performance report according to format.</li> </ul>

	<p><b>4. Inspect Control measures</b></p> <ul style="list-style-type: none"> <li>• Check side effects of control measures on plants and external environment.</li> <li>• Measure efficiency of applied control activity with reference to standard protocols.</li> <li>• Regulate IPM control methods to meet organizational requisites.</li> </ul>
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## Self-Assessment Checklist

<b>Candidate Name</b>	
<b>Registration No.</b>	
<b>Qualification</b>	Tunnel Farming, Greenhouse & Agribusiness (Level-5)
<b>Competency Standard</b>	Perform Integrated Pest Management (IPM)
<b>Purpose of Assessment</b>	Formative Assessment
<b>Assessment Task</b>	<ol style="list-style-type: none"> <li>1. Identify pest invasion</li> <li>2. Schedule the implementation of control strategies by IPM</li> <li>3. Perform pest control measures</li> <li>4. Inspect Control measures</li> </ol>

I can.....

<b>Performance Criteria</b>	<b>Yes</b>	<b>No</b>
1. Identify plant pest and disorders according to prescribed IPM	<input type="checkbox"/>	<input type="checkbox"/>
2. Identify the beneficial organisms according to insect orders	<input type="checkbox"/>	<input type="checkbox"/>
3. Draw lines with different scale of measurement Assess scope and size of the damage according to economic threshold level (ETL)	<input type="checkbox"/>	<input type="checkbox"/>
4. Follow health and safety standards required	<input type="checkbox"/>	<input type="checkbox"/>
5. Select the tool and equipment	<input type="checkbox"/>	<input type="checkbox"/>
6. Identify and arrange tools, equipment, machinery and biological cards for required activity	<input type="checkbox"/>	<input type="checkbox"/>

<b>7.</b> Ensure risks and hazards management according to safety standards	<input type="checkbox"/>	<input type="checkbox"/>
<b>8.</b> Ensure Personal Protective Equipment (PPE) according to required operations	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.</b> Ensure Eco-friendly procedures according to standards	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.</b> Identify and arrange required tools and chemicals required to perform IPM activity	<input type="checkbox"/>	<input type="checkbox"/>
<b>11.</b> Implement IPM standards	<input type="checkbox"/>	<input type="checkbox"/>
<b>12.</b> Maintain workplace after completion of each activity	<input type="checkbox"/>	<input type="checkbox"/>
<b>13.</b> Prepare performance report according to format.	<input type="checkbox"/>	<input type="checkbox"/>
<b>14.</b> Maintain record according to legislative guidelines	<input type="checkbox"/>	<input type="checkbox"/>
<b>15.</b> Check side effects of control measures on plants and external environment	<input type="checkbox"/>	<input type="checkbox"/>
<b>16.</b> Measure efficiency of applied control activity with reference to standard protocols	<input type="checkbox"/>	<input type="checkbox"/>
<b>17.</b> Regulate IPM control methods to meet organizational requisites	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature\_\_\_\_\_ Assessor's Signature\_\_\_\_\_

Date: \_\_\_\_\_

## Assessors Judgment Guide

<b>Qualification</b>	Tunnel Farming, Greenhouse & Agribusiness(Level-5)
<b>Competency Standard</b>	Perform Integrated Pest Management (IPM)
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Signature: _____
<b>Assessment Outcome</b>	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

<b>Assessment Task</b>		<ol style="list-style-type: none"> <li>1. Identify pest invasion</li> <li>2. Schedule the implementation of control strategies by IPM</li> <li>3. Perform pest control measures</li> <li>4. Inspect Control measures</li> </ol>		
<b>During the practical assessment, candidate demonstrated the following:</b>		<b>Yes</b>	<b>No</b>	<b>Remarks</b>
1.	Identify plant pest and disorders according to prescribed IPM	<input type="checkbox"/>	<input type="checkbox"/>	
2.	Identify the beneficial organisms according to insect orders	<input type="checkbox"/>	<input type="checkbox"/>	
3.	Draw lines with different scale of measurement Assess scope and size of the damage according to economic threshold level (ETL)	<input type="checkbox"/>	<input type="checkbox"/>	
4.	Follow health and safety standards required	<input type="checkbox"/>	<input type="checkbox"/>	
5.	Select the tool and equipment	<input type="checkbox"/>	<input type="checkbox"/>	
6.	Identify and arrange tools, equipment, machinery and biological cards for required activity	<input type="checkbox"/>	<input type="checkbox"/>	
7.	Ensure risks and hazards management according to safety standards	<input type="checkbox"/>	<input type="checkbox"/>	
8.	Ensure Personal Protective Equipment (PPE) according to required operations	<input type="checkbox"/>	<input type="checkbox"/>	
9.	Ensure Eco-friendly procedures according to standards	<input type="checkbox"/>	<input type="checkbox"/>	
10.	Identify and arrange required tools and chemicals required to perform IPM activity	<input type="checkbox"/>	<input type="checkbox"/>	
11.	Implement IPM standards	<input type="checkbox"/>	<input type="checkbox"/>	
12.	Maintain workplace after completion of each activity	<input type="checkbox"/>	<input type="checkbox"/>	
13.	Prepare performance report according to format.	<input type="checkbox"/>	<input type="checkbox"/>	
14.	Maintain record according to legislative guidelines	<input type="checkbox"/>	<input type="checkbox"/>	
15.	Check side effects of control measures on plants and external environment	<input type="checkbox"/>	<input type="checkbox"/>	
16.	Measure efficiency of applied control activity with reference to standard protocols	<input type="checkbox"/>	<input type="checkbox"/>	

17.	Regulate IPM control methods to meet organizational requisites	<input type="text"/>	<input type="text"/>	
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

## Knowledge Assessment

<b>Qualification</b>	Tunnel Farming, Greenhouse & Agribusiness(Level-5)
<b>Competency Standard</b>	Perform Integrated Pest Management (IPM)
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
<b>Assessment Outcome</b>	<b>COMPETENT</b> <input type="checkbox"/> <b>NOT YET COMPETENT</b> <input type="checkbox"/> 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.

<b>Questions</b> (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		<b>Satisfactory</b>	<b>Not Satisfactory</b>
1.	Define Pest and disease?		
2.	ETL stands for what? Give its importance.		

3.	What is meant by the term IPM?		
4.	Enlist Personal Protective Equipment (PPE)?		
5.	Define Pesticides and their major categories?		

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