

081205T4HNM

Horticultural Nursery Management Level 5

HO/OS/NM/CR/02/5

Produce Grafted/Budded Seedlings

July/August 2025



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

OBSERVATION CHECKLIST

Candidate's Name & Registration Code			
Assessors Name & Registration Code			
Venue of Assessment			
Date of Assessment			
Items to be evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks Available	Marks Obtained	Comments
TASK 1: Prepared grafting materials			
1. Wore PPE (Dust coat, safety boot, hand gloves) <i>(Award 1 mark each PPE or zero)</i>	3		
2. Prepared to graft <ul style="list-style-type: none"> Identified tools (grafting knife, scalpel, grafting tape, sterilizer) Selected healthy rootstock seedling Identified vigorous mother plant for scion collection <i>(Award 2 mark each activity or zero)</i>	6		
3. Collected grafting materials <ul style="list-style-type: none"> Identified the right mother plant Selected scion with healthy, pencil-thick stems Cut scion to 12–15 cm length with 3–4 buds Trimmed leaves to reduce water loss Wrapped the cut scion in a plastic bag/ wet newspaper <i>(Award 2 mark each activity or zero)</i>	10		
4. Prepared rootstock	3		

<ul style="list-style-type: none"> Selected rootstock of similar diameter to scion for compatibility Cut the rootstock seedling horizontally at 6-8 cm height above the soil level Split the cut upper part of the rootstock to a depth of 3 cm <p><i>(Award 1 mark each activity or zero)</i></p>			
<p>5. Prepared the scion</p> <ul style="list-style-type: none"> Cut the scion to a final length of 10 cm Sharpened the lower part of the scion to a V-shape Made a V-shape of 2-3 cm <p><i>(Award 1 mark each activity)</i></p>	3		
Sub-Total 1	25		
TASK 2: CARRIED OUT GRAFTING ON THE SEEDLING.			
<p>6. Joined the rootstock with the scion</p> <ul style="list-style-type: none"> Inserted the V-sharpened scion into the slit rootstock Inserted the scion to the right depth. (cambium layers in contact) Aligned the joined parts (making sure the cambiums of the rootstock and scion are in contact and firm) <p><i>(Award 2 marks each activity)</i></p>	6		
<p>7. Wrapped the union</p> <ul style="list-style-type: none"> Held the union with one hand and wrapped using grafting tape Ensured wrapping is tight (scion cannot pull out) <p><i>(Award 1 mark each activity)</i></p>	2		

8. Covered the scion <ul style="list-style-type: none"> Covered the scion to increase temperature and humidity around the graft <p><i>(Award 1 mark or Zero)</i></p>	1		
9. Care for grafted seedling <ul style="list-style-type: none"> Grafted seedling labeled Kept the seedling under shade Watered the seedling <p><i>(Award 2 marks each activity)</i></p>	6		
10. Cleared the working area <ul style="list-style-type: none"> Assembled the working tools Cleaned the tools Disinfected tools Properly stored Disposed off the wastes <p><i>(Award 1 marks each activity)</i></p>	5		
Sub-Total 2	20		
GRAND TOTAL	45		

ASSESSMENT OUTCOME

The candidate was found to be:

Competent

Not yet Competent

*(Please tick as appropriate)**(The candidate is competent if the candidate obtains at least 50%)***Feedback from the Candidate:**

Feedback to the Candidate:

Candidate Signature

Date:

Assessor's Signature

Date
