

081205T4HNM

HORTICULTURE NURSERY MANAGEMENT LEVEL 5

HO/OS/NM/CR/07/5

Harden Tissue Culture Seedlings

July/August 2025



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

PRACTICAL ASSESSMENT

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			
Assessor's 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
i. TASK 1: CARRY OUT POTTING OF TISSUE CULTURE SEEDLINGS.			
1. Wore PPEs <ul style="list-style-type: none"> • Gloves • Gumboots • Apron /dust coat • Face shield <i>(Award one mark for each PPE donned as per workplace procedures)</i>	4		
2. Gathered the required materials, tools equipment: <ul style="list-style-type: none"> • Stickers • Pen • Marker pen • Note book • Labels • Tissue Culture Seedlings • Clean Pots or Trays • Watering Can • Disinfectant Solution • Clean Water • Working Table 	2		

<ul style="list-style-type: none"> • Shade Tunnel • Permanent Marker • Tongs/Forceps and Scalpels <p><i>(Award 2 marks for assembling tools)</i></p>			
<p>3. Prepared the Potting Area:</p> <ul style="list-style-type: none"> • Sterilized all tools, containers, and the working area a disinfectant. • Moistened the potting mix before use. <p><i>(Award 2 marks for each point)</i></p>	4		
<p>4. Removed Seedlings from Culture:</p> <ul style="list-style-type: none"> • Gently removed tissue culture seedlings from the vessels. • Rinsed roots under clean, sterile water to remove agar <p><i>(Award 2 marks for each activity)</i></p>	4		
<p>5. Filled Pots with Potting Media:</p> <ul style="list-style-type: none"> • Filled each pot or tray cell with the prepared sterile potting media. • Lightly pressed the media to provide stability but avoid compacting it too much. <p><i>(Award 2 marks for each activity)</i></p>	4		
<p>6. Transplanted Seedlings:</p> <ul style="list-style-type: none"> • Used a stick or finger to create a small hole in the center of the potting mix. • Carefully placed the seedling into the hole. • Covered the roots with media • Lightly pressed around the base to secure the seedling. <p><i>(Award 2 marks for each activity)</i></p>	8		

<p>7. Watered:</p> <ul style="list-style-type: none"> Gently watered the potted seedling with clean using a watering can to settle the mix around the roots. <p><i>(Award 2 mark or zero)</i></p>	2		
<p>8. Placed in Hardening Area:</p> <ul style="list-style-type: none"> Transferred the potted seedlings to a shaded, humid environment such as hardening tunnel, or greenhouse. <p><i>(Award 2 marks or zero)</i></p>	2		
<p>9. Labeled the Potted Tissue Culture Seedlings:</p> <p>i. Prepared the Label by writing the;</p> <ul style="list-style-type: none"> Plant type Variety Date of potting Name/Reg number <p>ii. Attached the Labels to Pots by;</p> <ul style="list-style-type: none"> Firmly attached the label to the side of the pot. Ensured the label is visible <p><i>(Award 2 marks for each activity)</i></p>	4		
SUB-TOTAL 1	34		
TASK 2. DOCUMENT THE PROCESS			
<p>10. Recorded each step of the potting process in a notebook</p> <p>i. Pre-Potting Details:</p> <ul style="list-style-type: none"> Date of potting Plant type/variety. Number of seedlings. Source of seedlings. <p>ii. Potting Process:</p> <ul style="list-style-type: none"> Potting media used, Method of potting, Any variations observed during potting <p><i>(Award 2 marks for each activity)</i></p>	4		

11. Stored in Accordance with Manual Guidance <ul style="list-style-type: none"> Kept the remaining materials in a safe place. Observed hygiene. <p><i>(Award 2 marks or zero)</i></p>	2		
SUB-TOTAL 2	6		
GRAND TOTAL	40		
ASSESSMENT OUTCOME			
<p>The candidate was found to be:</p> <p style="text-align: center;">Competent <input type="checkbox"/> Not yet competent <input type="checkbox"/></p> <p><i>(Please tick as appropriate)</i></p> <p><i>(The candidate is competent if the candidate obtains at least 50%)</i></p>			
Feedback from candidate:			
Feedback to candidate:			
Candidate's Signature		Date	
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Assessor's Signature		Date	
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