071906T4AEN

AGRICULTURAL ENGINEERING LEVEL 6
ENG/OS/AGR/CR/03/6/A

Perform Produce Post Harvest Activities

March/April 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			
Assessors Name & Registration Code			
Venue of Assessment			
Date of Assessment			
Items to be Evaluated: Please award marks as	Marks	Marks	Comments
appropriate. Give a brief comment on your observation.	Available	Obtained	
TASK 1: Received grains in store determined per	centage conte	nt of foreign m	aterials, Rotten,
disease and discoloured (RDD) grains and Pest Da	maged grains	S	
1. Wore PPEs as per the work place policy			
• overall	3		
gum bootsdisposable gloves			
(Award 1 mark for each PPE donned maximum 3			
marks)	corr		
2. Received the grains and carried the correct			
sampling.Used the spear to prick the bag to extract			
	2		
samples from different points around the			
bag			
• Formed cone with the quarterly	2		
procedure			
 Achieved correct ratio 0.05% sampling 	2		
amount - 200g (m1)			
(Award 2 marks for each activity maximum 6			
marks)			
3. Determined foreign matter			
Used the appropriate sieve size	1		
and/or hand picking.			
 Selected all the foreign matter 	1		
retained on top of the sieve and add			
to that which passed through the			

sieve.			
• Weighed the foreign matter (m2).	1		
• % Foreign matter = m2/ m1 X100	1		
(Award 1 mark for each activity maximum 4			
marks)			
 4. Determined Pest damaged grains as per Standard Operation Procedures Select all grains which are partially eaten (bored) by weevils, grain borers or other crawling pests (m2) 	1		
• Select all rotten and diseased grains and weigh (<i>m</i> 2).	1		
weighed (m2).	1		
• % pest damaged grains = $m2/m1 \ X100$			
(Award 1 mark for each correct activity maximum 3 marks)	com		
5. Determined Rotten, diseased and discoloured (RDD) grains as per Standard			
Operation Procedures			
 Select all rotten and diseased grains (m2). 	1		
• weighed (m2). % rotten and	1		
• diseased grains %RDD = m2/m1 X100	1		
(Award 1 mark for each correct activity			
maximum 3 marks)			
TASK 2: Received grains in store determined perceived	centage conte	nt of foreign m	aterials, Rotten,
disease and discoloured (RDD) grains and Pest Da	maged grains	3	
6. Used the UV light source in a dark	3		
environment to test Aflatoxin as per Standard Operation Procedures			
Standard Operation Procedures			
7. Indicated the results and made the right	3		
deduction (if green- yellow glow then grains			

affected otherwise not) (Award 1 marks for each correct activity			
Maximum 3 marks)			
8. Estimated the percentage of grains affected			
as per Standard Operation Procedures			
Select all affected grains (m2).	1		
weighed (m2).	1		
% Affected grain = m2/m1 X100	1		
(If more than 5% - reject			
(Award 1 marks for each correct activity			
Maximum 3 marks)			
TASK 3: Determine the moisture content, dry and	wet basis by	oven dry meth	od and make
recommendation.			
9. Weighed a given sample and recorded as per	2		
Standard Operation Procedures	offi		
(Award 2 marks for each correct activity)	,co		
10. Placed in oven for 2 hours or microwave for	2		
2-3 minutes and timed as per Standard			
Operation Procedures			
(Award 2 marks for each correct activity)			
11. Calculated moisture content wet basis as per	2		
Standard Operation Procedures	_		
-			
(Award 2 marks for each correct activity)			
12. Calculated moisture content dry basis as per	2		
Standard Operation Procedures			
(Award 2 marks for each correct activity)			
13. Made the right recommendation either for	2		
storage or further drying as per Standard			
operation procedures			
(Award 2 marks for each correct activity)			
14. Carried out disposal and returned tools and	2		
materials as per the workplace waste			

management policy						
(Award 2 mark or zero for each, max 2)						
GRAND TOTAL	40					
ASSESSMENT OUTCOME						
The candidate was found to be:						
(Please tick as appropriate) Competent Not yet Competent						
(The candidate is competent if the candidate obtain.	s at least 5	0%)				
Feedback from the Candidate:						
Feedback to the Candidate:	200					
Wind Con.						
Candidate Signature	1	Date:				
Assessor's Signature		Date				