

Knowledge Assessment

Qualification	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
Competency Standard	Perform K in solid, liquid and mixed fertilizer by kjeldahl method
Purpose of Assessment	
Candidate Details	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
Assessment Outcome	<div style="display: flex; justify-content: space-around; 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.

Perform Uric/Urease nitrogen (n) in solid, liquid and mixed fertilizer by kjeldahl method

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	Name the standard reagent used for determination of K in fertilizer?		
2.	Enlist equipments used for performing above mentioned test?		
3.	Write the formula for standard solution calculation?		
4.	Write the formula for calculation of K ₂ O results?		
5.	Write quantity of sample taken for processing?		

6.	Name any fertilizer containing Potash?		

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

Key

National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, Water and Fertilizer Testing Lab Technician)			
Perform K in solid, liquid and mixed fertilizer by kjeldahl method			
Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
7.	I. Name the standard reagent used for determination of K in fertilizer? • Potassium chloride		
8.	Enlist equipment's used for performing above mentioned test? Flame photometer Analytical balance Volumetric flask, 100ml 1000ml Pipette Wash bottle		
9.	Write the formula for standard solution calculation? • $C_1V_1 = C_2V_2$		
10.	I. Write the formula for calculation of K_2O results? $K \text{ (ppm)} \times \text{dilution Factor} \times 1.2046$ $\%K_2O = \frac{\quad}{10000}$		
11.	Write quantity of sample taken for processing? • 1 gm		
12.	Name any fertilizer containing Potash?		

	<ul style="list-style-type: none"> • NPK (20:20:20) and K_2SO_4 		
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