

Knowledge Assessment

Qualification	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
Competency Standard(s)	Perform Chloride (Cl) test by Titrimetric Method
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.

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	Which indicator is used for Chloride?		
	a) Potassium chlorate b) Eriochrome black T c) Methyl orange d) Potassium chromate e) Murexide		
2.	Name the titrant used for Chloride test?		

	a) Silver nitrate b) Potassium chloride c) Hydrochloric acid d) Sodium hydroxide		
3.	What is end point of chloride test?		
	a) Yellow to brick red b) Pink to colorless c) Yellow to orange d) Wine to green		
4.	How will you prepare 0.1 N AgNO_3		
	a) 16.987 grams diluted to a volume of 1 Liter b) 1.6987 grams diluted to a volume of 1 Liter c) 0.6987 grams diluted to a volume of 1 Liter d) 169.87 grams diluted to a volume of 1 Liter		
5.	In which unit you report results?		
6.	What is molecular weight of AgNO_3 ?		
	a) 166.87 b) 165.90 c) 1678.20 d) 169.87		
7.	How to calculate chloride in water?		
8.	How will you standardized AgNO_3 ?		

Key

National Vocational Certificate level 2 to 5, in **Agriculture Sector (Soil, Water and Fertilizer Testing Lab Technician)**

Perform Chloride (Cl) test by Titrimetric Method

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	Which indicator is used for Chloride?		
	Potassium chlorate		
2.	Name the titrant used for Chloride test?		
	Silver nitrate		
3.	What is end point of chloride test?		
	Yellow to brick red		
4.	How will you prepare 0.1 N AgNO ₃		
	16.987 grams diluted to a volume of 1 Liter		
5.	In which unit you report results?		
	PPm (mg/L)		
6.	What is molecular weight of AgNO ₃ ?		
	169.87		
7.	How to calculate chloride in water?		
	$\frac{V \times N \times 35.5 \times 1000}{\text{Sample volume}}$		
8.	How will you standardized AgNO ₃ ?		

	With standard sodium chloride		
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