

Knowledge Assessment

Qualification	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, Water and Fertilizer Testing Lab Technician)
Competency Standard(s)	Perform Soil Texture Class Identification through Hydrometer
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.	What is soil texture?		
2.	What is hydrometer?		
3.	Which Tools & Equipment are used to determine soil texture?		

4.	Which salt is used in soil dispersion purpose?		
	a) sodium hexametaphosphate b) sodium vanadate c) sodium molybdate d) sodium citrate		
5.	What is the importance of soil texture?		
6.	what is the use of Textural Triangle?		
7.	What is the size of sieve used in determination of soil texture?		
	a) 8mm b) 5mm c) 2mm d) 1mm		
8.	At what temperature soil is dried?		
	a) 100 ⁰ C b) 105 ⁰ C c) 110 ⁰ C d) 150 ⁰ C		

Key

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

Perform Soil Texture Class Identification through Hydrometer

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	What is soil texture?		
	Soil texture (such as loam, sandy loam or clay) refers to the proportion of sand, silt and clay sized particles that make up the mineral fraction of the soil.		
2.	What is hydrometer?		
	A hydrometer is an instrument used for measuring the relative density of liquids based on the concept of buoyancy. They are typically calibrated and graduated with one or more scales such as specific gravity.		
3.	Which Tools & Equipment are used to determine soil texture?		
	Hydrometer with plunger, Analytical Balance, Oven, Plastic Beaker, Paddle, Sieve, Textural Triangle chart		
4.	Which salt is used in soil dispersion purpose?		
	Sodium hexametaphosphate		
5.	What is the importance of soil texture?		
	The texture of a soil is important because it determines soil characteristics that affect plant growth. Three of these characteristics are water-holding capacity, permeability, and soil workability. Water-holding capacity is the ability of a soil to retain water.		

6.	What is the use of Textural Triangle?		
	The soil texture triangle is one of the tools that soil scientists use to visualize and understand the meaning of soil texture names. The textural triangle is a diagram which shows how each of these 12 textures is classified based on the percent of sand, silt, and clay in each.		
7.	What is the size of sieve used in determination of soil texture?		
	2mm		
8.	At what temperature soil is dried?		
	105°C		