

Knowledge Assessment

Qualification	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
Competency Standard	Perform water soluble micronutrients (Zn, Fe, Mn etc) test in Fertilizers through Atomic Absorption Spectrometer (AAS) 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.

Execute Pre-Sampling Operations

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	I. Define Micronutrients?		
	<ul style="list-style-type: none"> Micronutrients are essential elements needed by life in small quantities. They include microminerals and Vitamins. Microminerals or trace elements include at least iron, cobalt, chromium, copper, iodine, manganese, selenium, zinc, and molybdenum. 		
2.	Abbreviate CRM?		
	<ul style="list-style-type: none"> Certified Reference Material 		
3.	Tick the ideal temperature to store solutions.		
	A = 50°C B = -50°C C = 25°C D = -4°C		
4.	Define distilled water?		
	<ul style="list-style-type: none"> Distilled water is water that has been boiled into vapor and condensed back into liquid in a separate container. 		
5.	Write down the formula for micronutrient calculation?		
	<ul style="list-style-type: none"> Micronutrient concentration = Reading x dilution factor 		

6.	Tick true statement only.		
	1. Nitrogen is micronutrient. 2. Nitrogen is macronutrient. 3. Zinc is a macro element.		
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Feedback to the Candidate			
Candidate's Signature _____ Assessor's Signature _____			