

Knowledge Assessment

Qualification	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
Competency Standard(s)	Handling of sophisticated level Equipment I
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: _____

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	Name any 3 Sophisticated lab equipments used for analysis?		
2.	What is reference standard?		
3.	What is working standard?		
4.	Describe the principal of AAS?		

5.	Define calibration?		

Key

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
6.	Name any 3 Sophisticated lab equipments used for analysis?		
	<ul style="list-style-type: none"> • Atomic Absorption spectrophotometer • Spectrophotometer • Flame Photo meter • Kjeldahl Unit 		
7.	What is reference standard?		
	A reference standard is standard that obtained from authentic official sources like USP/NF.		
8.	What is working standard?		
	A working standard is standard that is qualified against or used instead of reference standard.		
9.	Describe the principal of AAS?		
	Atomic absorption spectroscopy (AAS) is based upon the principle that free atoms in the ground state can absorb light of a certain wavelength. Absorption for each element is specific, no other elements absorb this wavelength.		
10.	Define calibration?		
	Calibration is the comparison of measurement delivered by device with calibration standard of a known accuracy.		