

Knowledge Assessment

Qualification	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, Water and Fertilizer Testing Lab Technician)
Competency Standard(s)	<ul style="list-style-type: none"> • Adhere to lab safety rules • Apply sampling techniques • Execute pre sampling operations • Handle basic level equipment • Process sample for analysis • Maintain lab record • Perform pH test of water by PH meter • Perform pH test of soil by PH meter • Perform water conductivity test by EC meter • Perform soil electrical conductivity (EC) by EC meter
Candidate Details	<p>Name: _____</p> <p>Registration/Roll Number: _____ Candidate Signature: _____</p>
Assessment Outcome	<p>COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/></p> <p>Name of the Assessor: _____ Assessor's code: _____</p> <p>Signature of the Assessor: _____</p>

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	Define MSDS?		
2.	GPS stands for?		
3.	What lab equipment is used to provide heat for experimentation?		
	<ul style="list-style-type: none"> • Test Tube Rack • Mortar and Pestle • Wire Gauze • Bunsen Burner 		
4.	Define PPE?		
	Personal Protective Equipment		
5.	Define pH?		
6.	Describe Soil EC?		

Key

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

- Adhere to lab safety rules
- Apply sampling techniques
- Execute pre sampling operations
- Handle basic level equipment
- Process sample for analysis
- Maintain lab record
- Perform pH test of water by PH meter
- Perform pH test of soil by PH meter
- Perform water conductivity test by EC meter
- Perform soil electrical conductivity (EC) by EC meter

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
7.	Define MSDS?		
	Materials safety Data Sheets		
8.	GPS stands for?		
	Global positioning System		
9.	What lab equipment is used to provide heat for experimentation?		
	<ul style="list-style-type: none"> • Test Tube Rack • Mortar and Pestle • Wire Gauze • Bunsen Burner 		
10.	Define PPE?		
	Personal Protective Equipment		
11.	Define pH?		
	pH is a measure of how acidic/basic water is. The range goes from 0 to 14, with 7 being neutral. pHs of less than 7 indicate acidity, whereas a pH of greater than 7 indicates a		

	base. pH is really a measure of the relative amount of free hydrogen and hydroxyl ions in the water.		
12.	Describe Soil EC?		
	Soil electrical conductivity (EC) is a measure of the amount of salts in soil (salinity of soil). It is an excellent indicator of nutrient availability and loss, soil texture, and available water capacity.		