

## Knowledge Assessment

<b>Qualification</b>	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
<b>Competency Standard</b>	<b>Perform Standard Test Method (STM) for Zinc chelated percentage</b>
<b>Purpose of Assessment</b>	
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
<b>Assessment Outcome</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <span><b>COMPETENT</b> <input type="checkbox"/></span> <span><b>NOT YET COMPETENT</b> <input type="checkbox"/></span> </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.	Define chelating agent?		
2.	Enlist few deficiency symptoms of zinc in plant?		
3.	Tick true statement only.		
	<ul style="list-style-type: none"> <li>Zinc is a non-essential element.</li> <li>Zinc is a macronutrient.</li> <li>Zinc is a micronutrient.</li> </ul>		
4.	Name any chelating agent?		
5.	Define deionized water?		

<b>Feedback to the Candidate</b>
<b>Candidate's Signature</b> _____ <b>Assessor's Signature</b> _____

## Key

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

**Perform Standard Test Method (STM) for Zinc chelated percentage**

<b>Questions</b> (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		<b>Satisfactory</b>	<b>Not Satisfactory</b>
1.	Define chelating agent? <ul style="list-style-type: none"> <li>Chelating agents are chemical compounds that bond with metal ions (such as zinc) to create a stable, water-soluble product that can be easily absorbed</li> </ul>		
2.	Enlist few deficiency symptoms of zinc in plant? <ul style="list-style-type: none"> <li>Stunting – reduced height;</li> <li>Interveinal chlorosis;</li> <li>Brown spots on upper leaves;</li> <li>Distorted leaves</li> </ul>		
3.	Tick true statement only. <ul style="list-style-type: none"> <li>Zinc is a non-essential element.</li> <li><b>Zinc is a macronutrient.</b></li> <li>Zinc is a micronutrient.</li> </ul>		
4.	Name any chelating agent? <ul style="list-style-type: none"> <li><u>Dimercaprol</u></li> <li>EDTA</li> <li><u>Succimer</u></li> <li><u>Dimercaprol</u></li> </ul>		
5.	Define deionized water? <ul style="list-style-type: none"> <li><b>Deionized (DI) water</b> is <b>water</b> that has been treated to remove all ions – typically, that means all of the dissolved mineral salts</li> </ul>		