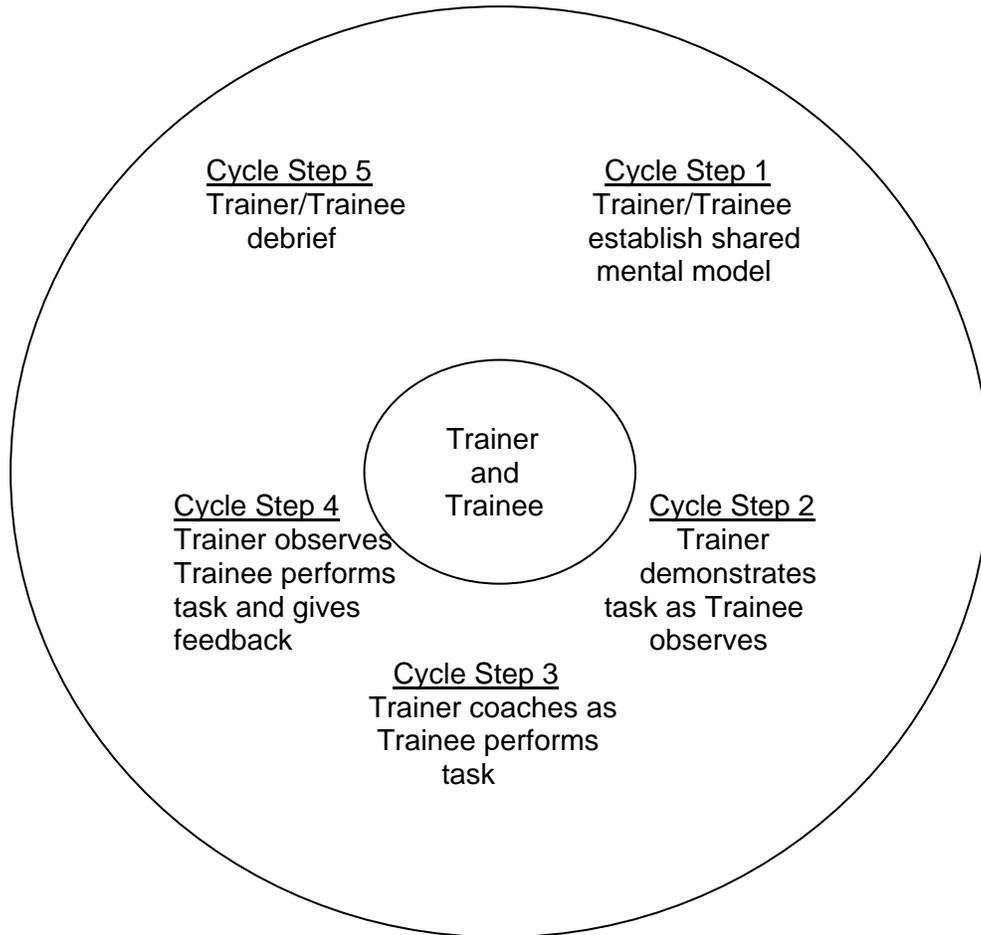


## OJT Training Module Cover Sheet

<b>Title: 412 How to sample for salinity tests.</b>
<b>Type:</b> <input checked="" type="checkbox"/> Skill <input type="checkbox"/> Knowledge
<b>Performance Objective:</b> Trainee will be able to ... <ul style="list-style-type: none"><li>• Demonstrate methods used to collect and prepare soil and water samples for salinity tests.</li></ul>
<b>Target Proficiency:</b> <input type="checkbox"/> Awareness <input type="checkbox"/> Understanding <input type="checkbox"/> Perform w/ Supervision <input checked="" type="checkbox"/> Apply Independently <input type="checkbox"/> Proficiency, can teach others
<b>Trainer Preparation:</b> <ul style="list-style-type: none"><li>• Trainer should be familiar with the assigned reading/review material in the lesson plan that follows.</li><li>• If possible, time training so that it coincides with sampling soils in the field as part of a sampling project.</li></ul>
<b>Special Requirements:</b> Initiate an external learning request with a SF-182 in Aglearn for this activity. Instructions and a template are located on the training webpages for OJT modules.
<b>Prerequisite Modules:</b> <ul style="list-style-type: none"><li>• 406 Understand the standard procedures for sampling soils—overview.</li></ul>
<b>Notes:</b> <i>Recommended</i> modules to be done in conjunction with this module include: <ul style="list-style-type: none"><li>• 1005 Soil salinity—the what, where, and how of salinity development</li><li>• 1006 Soil salinity—identification and measurement</li><li>• 1007 Soil salinity—effects and management</li></ul>
<b>Authors:</b> Shawn McVey
<b>Approved by:</b> Marc Crouch

# The Five-Step OJT Cycle for Procedural Training (Skill)



## OJT Module Lesson

### Title: 412 How to sample for salinity tests.

WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Cycle step 1	Trainer and trainee access via the internet and read/review: <ul style="list-style-type: none"> <li>• <b>Soil Survey Field and Laboratory Methods Manual</b>, SSIR #51:               <ul style="list-style-type: none"> <li>○ Field Assessment and Sampling Strategies                   <ul style="list-style-type: none"> <li>• Field Assessment                       <ul style="list-style-type: none"> <li>• <b>Saline Soils</b></li> <li>• <b>Sampling for Salinity, sodicity, and pH</b></li> </ul> </li> </ul> </li> <li>○ Electrical Conductivity and Soluble Salts                   <ul style="list-style-type: none"> <li>• <b>Aqueous Extraction</b></li> <li>• <b>Saturated Paste</b></li> </ul> </li> </ul> </li> <li>• <b>Soil Quality Test Kit Guide:</b> <ul style="list-style-type: none"> <li>○ Test procedures                   <ul style="list-style-type: none"> <li>• <b>Water Quality Tests</b></li> </ul> </li> <li>○ Background &amp; Interpretive Guide for Individual Tests                   <ul style="list-style-type: none"> <li>• <b>Electrical Conductivity (EC)</b></li> </ul> </li> </ul> </li> </ul>
Cycle step 2	Trainer demonstrates to trainee the collection and preparation of a sample for salinity tests. Demonstrate the method available in the office, but also discuss additional methods, such as saturated paste extract, salt bridge, EC meter, and diluted EC methods. Discuss any differences between measuring salinity for soil samples versus water samples.
Cycle step 3	Coaching the trainee, have the trainee collect and prepare a sample for salinity analysis.
Cycle step 4	Repeat cycle step 3 without coaching.  During project activities, assign the trainee the task of collecting samples for salinity tests.
Cycle step 5	Answer any questions. Repeat any steps as necessary.

## **OJT Module Lesson Measurement of Learning**

**Title: 412 How to sample for salinity tests.**

<b>WHAT</b>	<b>WHY, WHEN, WHERE, HOW, SAFETY, QUALITY</b>
Sample for salinity routinely during project activities.	During project activities, assign this task to the trainee. Sign off on performance when target proficiency is achieved.

### ***SF-182***

Trainee and/or supervisor access Aglearn to verify completion of the module via its SF-182.