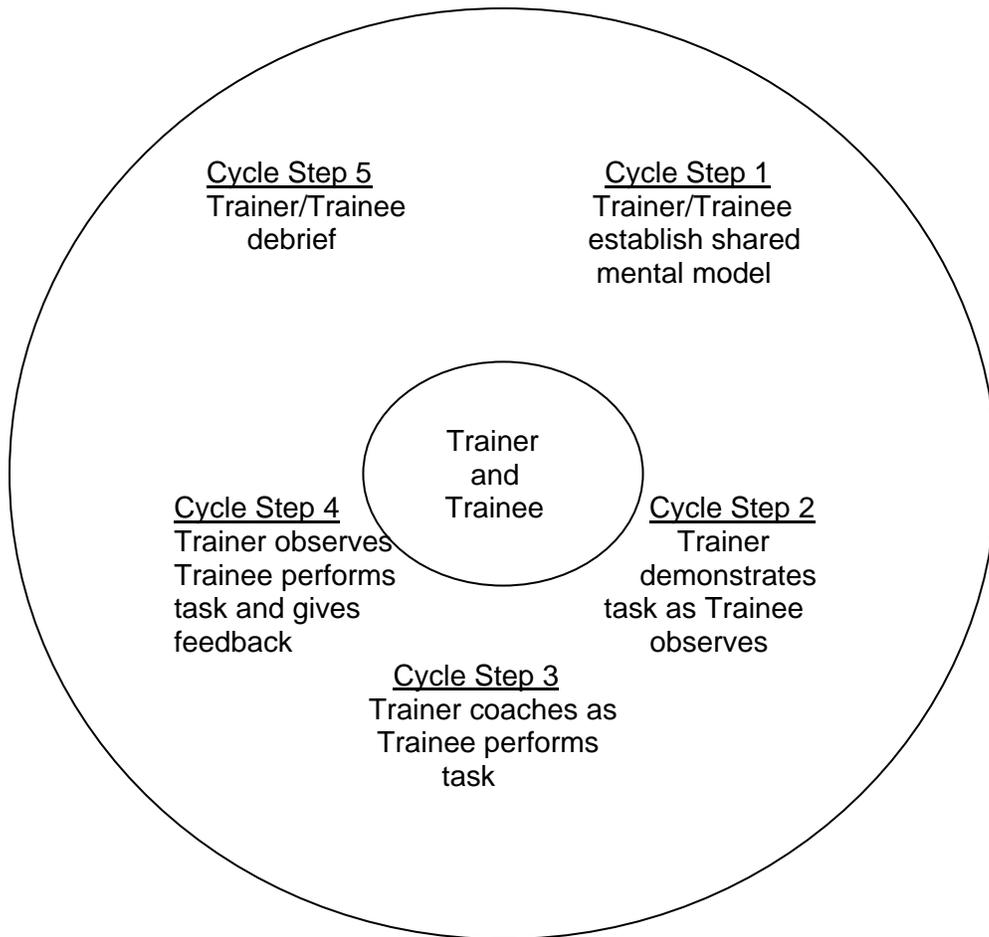


OJT Training Module Cover Sheet

Title: 127 How to describe field chemical responses in soil.
Type: <input checked="" type="checkbox"/> Skill <input type="checkbox"/> Knowledge
Performance Objective: Trainee will be able to ... <ul style="list-style-type: none">• Describe and record field pH, effervescence, reaction to alpha, alpha-dipyridyl, and salinity using <i>the Field Book for Describing and Sampling Soils</i>.
Target Proficiency: <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
Trainer Preparation: <ul style="list-style-type: none">• Be familiar with SSM section on selected chemical properties.• Have soil samples and field locations with pit, trench, road cut, or auger borings available.• Have the <i>Field Book for Describing and Sampling Soils</i> available.• Have hardcopy of the 232 soil description form or Pedon PC available.
Special Requirements: 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.
Prerequisite Modules: <ul style="list-style-type: none">• 101 How to use the <i>Field Book for Describing and Sampling Soils</i>.• 102 How to fill out a 232 soil description form.
Notes: None
Authors: Marc Crouch
Approved by: Shawn McVey

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



OJT Module Lesson

Title: 127 How to describe field chemical responses in soil.	
WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Cycle step 1	<p>Trainee should access via the internet and read Soil Survey Manual, Chapter 3 section on selected chemical responses, focusing on those items indicated by the trainer as pertinent in the survey area.</p> <p>Access hardcopy or via the internet and review material about chemical response in the <i>Field Book for Describing and Sampling Soils</i>.</p>
Cycle step 2	Do the following:
1. Review what can be recorded according to the Field Book and SSM.	Flip through the pages of the Field Book with the trainee.
2. Demonstrate how to describe and record pH as found in the survey area.	<p>Do this in the field.</p> <ul style="list-style-type: none"> Note that you record pH and method. This will require training in the method or methods used in the survey area.
3. Demonstrate how to describe effervescence if carbonates occur in the survey area.	<p>Do this in the field</p> <ul style="list-style-type: none"> Note that you record effervescence class and chemical reagent used. If you also use a carbonate field kit, you will need to provide training in its use to the trainee. Note that you record this as a Field Measured Property.
4. Demonstrate how to describe reduced conditions as they occur in the area.	<p>Do this in the field</p> <ul style="list-style-type: none"> You also will need to provide training in the use of alpha,alpha-dipyridyl.
5. Demonstrate how to describe salinity if salinity is an issue in the survey area.	<p>Do this in the field</p> <ul style="list-style-type: none"> Estimate salinity class if not measuring EC. If measuring EC, you will also need to provide training in use of the meter used in the survey area. Measure EC and record actual value if equipment is available.
Cycle step 3	Coaching the trainee, have the trainee describe and record appropriate chemical responses in the survey area.
Cycle step 4	Repeat cycle step 3 without coaching.
	During project activities, assign the trainee the task of describing and recording chemical responses as soil descriptions are completed.

Cycle step 5

Answer any questions. Repeat any steps as necessary.

OJT Module Lesson Measurement of Learning

Title: **127 How to describe field chemical responses in soil.**

WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Describe appropriate chemical responses 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.