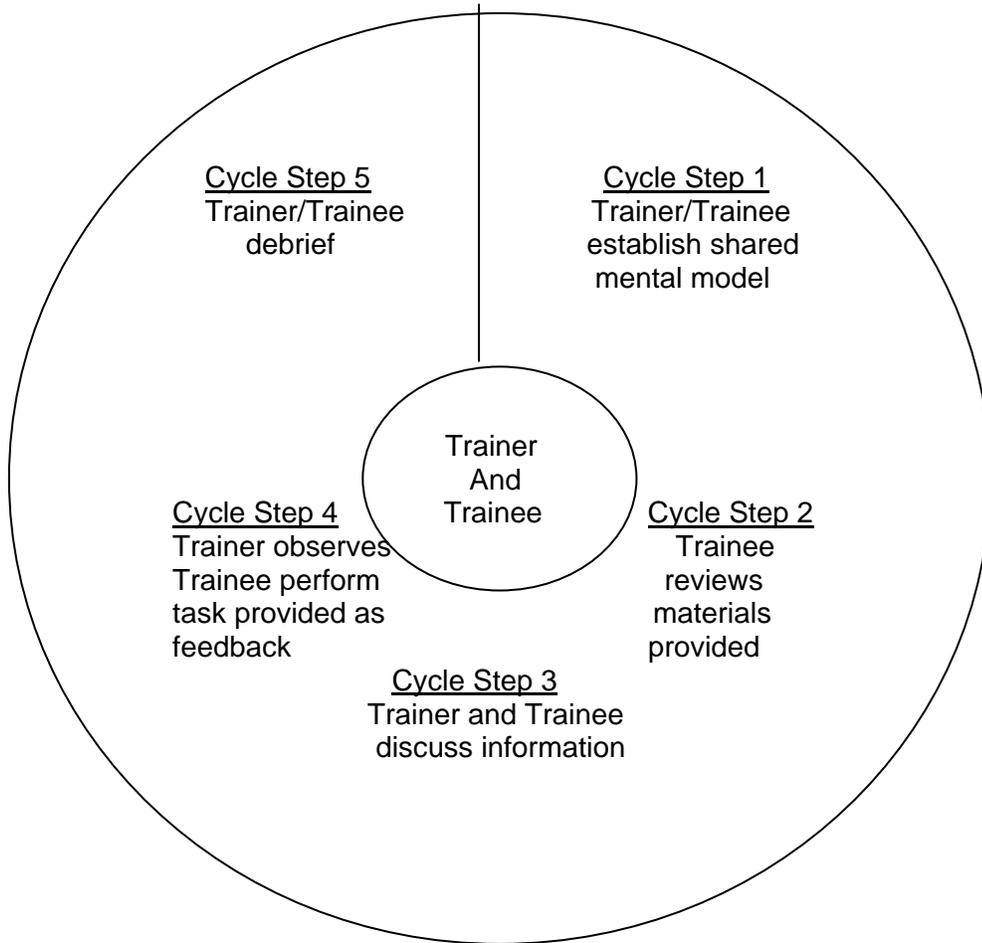


OJT Training Module Cover Sheet

Title: 1010 Soil Salinity – understand the effects and management practices to apply.
Type: <input type="checkbox"/> Skill <input checked="" type="checkbox"/> Knowledge
Performance Objective: Trainee will: <ul style="list-style-type: none">• Understand the effects of soil salinization on plant growth.• Recognize basic management practices for controlling saline areas.
Target Proficiency: <ul style="list-style-type: none"><input type="checkbox"/> Awareness <input checked="" type="checkbox"/> Understanding <input type="checkbox"/> Perform w/ Supervision<input type="checkbox"/> Apply Independently <input type="checkbox"/> Proficiency, can teach others
Trainer Preparation: <p>Trainer should be familiar with the assigned reading/review material in the lesson plan that follows.</p>
Special Requirements: <ul style="list-style-type: none">• 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.• CAUTION - Be able to traverse uneven surfaces in the field and operate a spade or other digging tool.
Prerequisite Modules: <ul style="list-style-type: none">• 1104 How to identify landscapes, landforms, and surface morphometry-overview.• 1008 Soil Salinity – Understand salinity development.• 1009 Soil Salinity – how to Identify and measure.
Notes: <p>None</p>
Authors: <p>Kent Cooley</p>
Approved by: <p>Marc Crouch Craig Ditzler</p>

The Five-Step OJT Cycle for Declarative Training (Knowledge)



OJT Module Lesson

Title: 1010 Soil Salinity – understand the effects and management practices to apply.

WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Third of three related soil salinity modules to be completed together.	
Cycle step 1	Review objectives and locate references used as job aids for this module.
Cycle step 2	Trainer and trainee should access via the internet and read/review: <ul style="list-style-type: none"> • -¹PLANTS for SALINE to SODIC SOIL CONDITIONS. Technical Note Plant Materials No. 9a, USDA, NRCS - Bridger, Montana, October, 2009. • -²Saline Seep Diagnosis, Control, and Reclamation, USDA ARS, Conservation Research Report Number 30, 1982. • -³Plant Materials for Salt-Affected Sites in the Northern Great Plains. USDA, NRCS, Bismarck, ND. March 2007. 8p. (ID# 7094) • -⁴Agricultural Resource Conservation Program 2 CRP (Rev. 4) Exhibit 9
Cycle steps 3 & 4	Do the following:
1. Understand the effects of soil salinization on plant growth.	Class exercise – discuss the effects of salinity on plant physiology (see reference ¹) (water/nutrient uptake and toxicity).
2. How to manage saline areas.	Class or field exercise – discuss management options to remove excess soil water from the profile to control seeps (see reference ² pgs 9-12) (proper grazing management, continuous cropping, use of perennial crops or trees in recharge areas); review salt tolerance of plant species (see references ^{1, 3}), and review USDA programs designed to aid in control of saline areas (CRP - CP18A, B, and C) (see reference ⁴).
Cycle step 5	Instructor summarizes what has been learned and lead into the next related module.

OJT Module Lesson Measurement of Learning

Title: **1010 Soil Salinity – understand the effects and management practices to apply.**

WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Office and field exercise for three related soil salinity modules	Trainer selects a field site for trainee to apply learning.
	Trainee should then prepare a report that demonstrates the ability to: <ul style="list-style-type: none">• Identify the hillslope position.• Identify the salinity indicators present.• Provide observations as to why the seep(s) formed.• Take and record an EC reading.• Report the comparable salinity class from the table referenced.• Identify management options.

SF-182

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