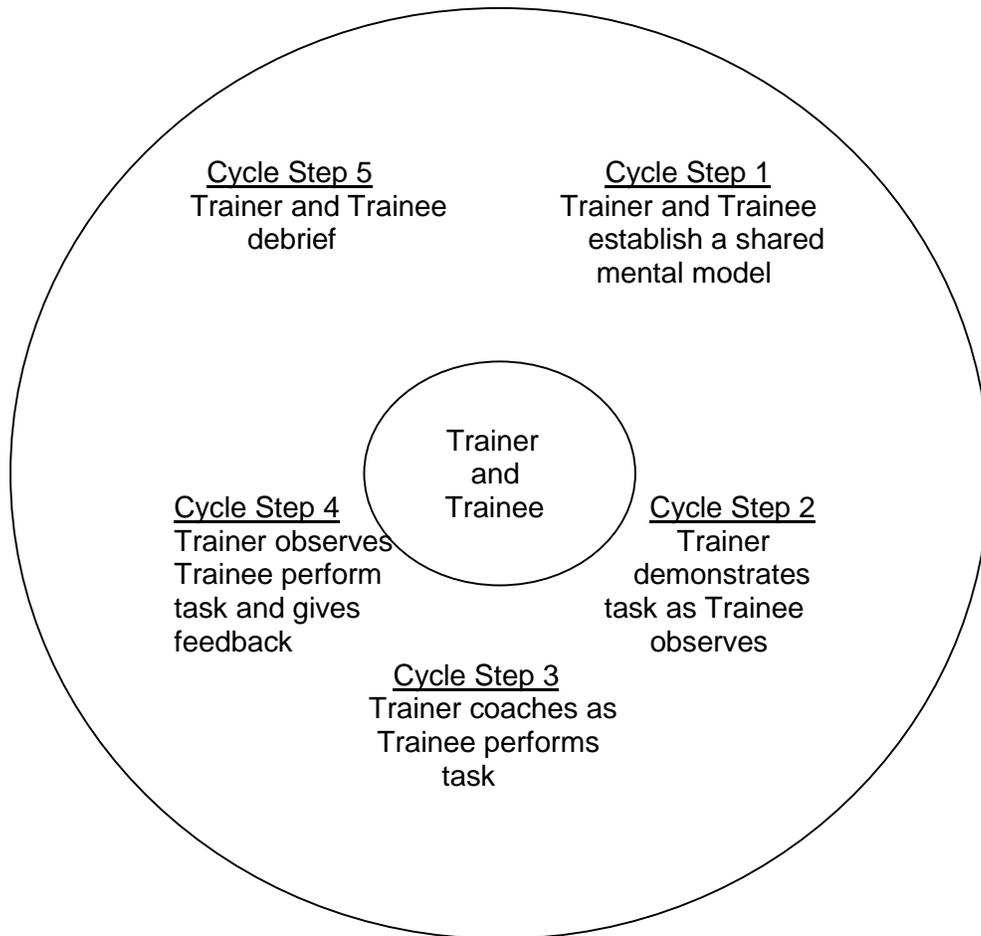


OJT Training Module Cover Sheet

Title: 730 How to develop a sampling strategy for ESD development
Type: <input checked="" type="checkbox"/> Skill <input type="checkbox"/> Knowledge
Performance Objective: Trainee will be able to... <ul style="list-style-type: none">• Stratify sampling locations appropriately across a potential ecological site.
Target Proficiency: <input type="checkbox"/> Awareness <input type="checkbox"/> Understanding <input type="checkbox"/> Perform with 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 the assigned reading and review material in the lesson plan that follows.• Have in hand any previous sampling strategies for ecological sites in the area.• Have in mind one or more potential ecological sites for which a sampling strategy could be developed.
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: None
Notes: None
Authors: Marc Crouch
Approved by: Johanna Pate Shawn McVey Craig Busskohl

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



OJT Module Lesson

Title: 730 How to develop a sampling strategy for ESD development	
WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Cycle Step 1	<p>You and trainee review the objectives of the module.</p> <p>You and trainee read and review: National Ecological Site Handbook Part 631, Subpart B – Steps for Ecological Site Differentiation and Development of Ecological Site Descriptions</p> <ul style="list-style-type: none"> • Section 631.11 – Preliminary Stages <ul style="list-style-type: none"> ○ Subsection G – Develop Sampling Strategy <p>Discuss the NESH guidelines.</p>
Cycle Step 2	<p>Discuss the main goal and considerations affecting decisions. If there is an existing sampling strategy, show trainee one or more of the following as appropriate for the trainee's area. Otherwise, develop a strategy for a potential site. Discuss how the strategy is documented in your area.</p>
Main goal	<ul style="list-style-type: none"> • Capturing spatial and temporal variations of an ecological site. • Selecting sampling sites appropriate for accomplishing this goal. • Assigning sampling protocols appropriate for the site.
General guidelines	<ul style="list-style-type: none"> • How many sampling sites are needed to document the variability for this particular ecological site? • Is data available from a related site for inference for this site and, if so, how can it be used for inference? • Determine if field observations are sufficient or if soil laboratory analysis is required, dependent on existing data and benchmark soil(s) for the soils to be observed. • If ecological site inventory is relatively new to the area, is recognizing new benchmark soil(s) and/or a benchmark ecological site appropriate? • If soil sampling is anticipated, determine if reference sampling or full characterization is appropriate. • What, if any, soil properties will be analyzed at all sites. For example: <ul style="list-style-type: none"> ○ Bulk density ○ Infiltration ○ Aggregate stability
1. Soil survey is complete	<ul style="list-style-type: none"> • How to stratify by soil map unit component. • Use of soil survey spatial and attribute digital data in the development process. • Use of reconnaissance data in the development process. • Use of soil survey data to help determine sampling needs.

<p>2. Terrestrial ecological unit inventory is complete on USFS lands</p>	<ul style="list-style-type: none"> • How to stratify by ecological unit. • Use of spatial and attribute digital data in the development process. • Use of reconnaissance data in the development process.
<p>3. Soil surveys and ecological unit inventories have not been completed</p>	<ul style="list-style-type: none"> • How to stratify by elevation, landform, slope, aspect, geologic parent material, and vegetation patterns using information gathered during the reconnaissance phase, aerial photography, and spatial data. • How to use existing digital products for remote sensing to guide strategy development. • Use of reconnaissance data in the development process.
<p>Cycle Step 3</p>	<p>If possible, coach trainee as trainee prepares a sampling strategy for another potential ecological site. If not possible, use an existing ecological site and compare trainee's results with the strategy previously developed for the site.</p>
<p>Cycle Step 4</p>	<p>Repeat Cycle Step 3 without coaching for another potential or existing ecological site.</p>
<p>Cycle Step 5</p>	<p>Debrief trainee and address any concerns.</p>

OJT Module Lesson Measurement of Learning

Title: 730 How to develop a sampling strategy for ESD development	
WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Trainee's learning is measured.	During project activities, assign this task to the trainee. Sign off on performance when target proficiency is achieved.
Follow-up	Follow-up should be done within 6 months to make sure training is retained.
Performance Report	Complete OJT Performance Report.

SF-182

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