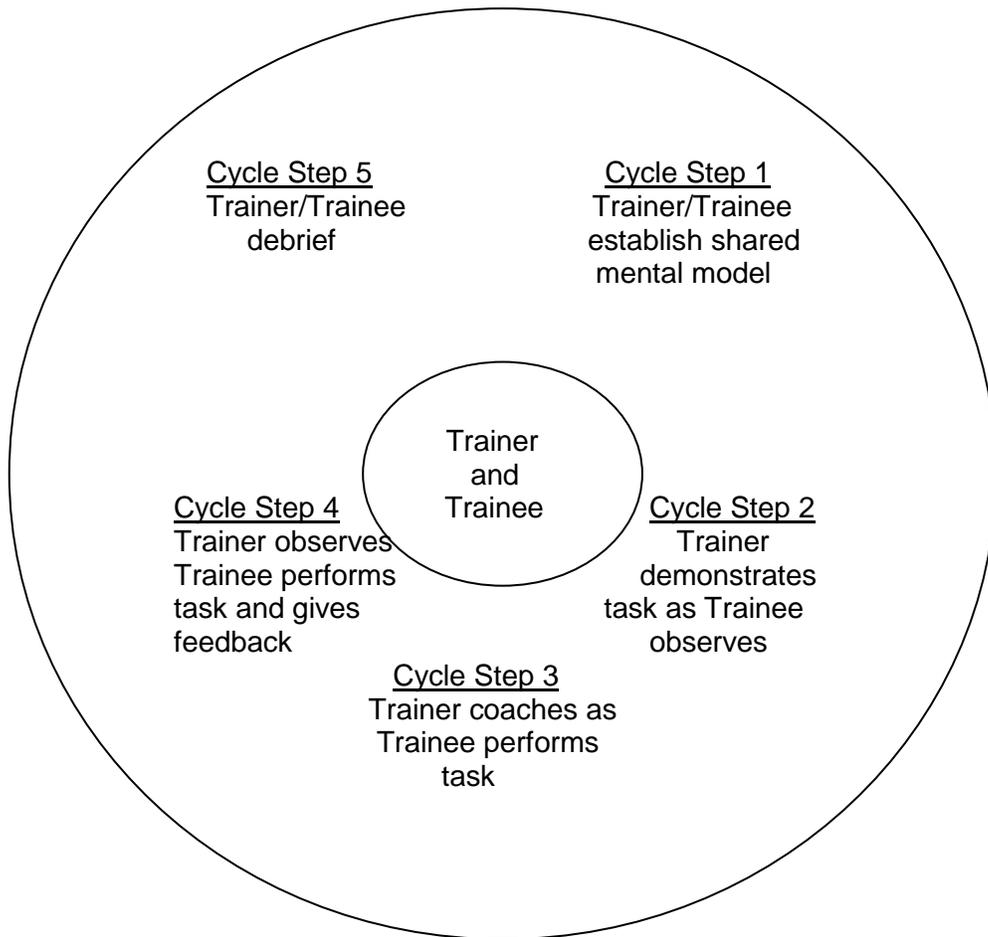


## OJT Training Module Cover Sheet

<b>Title:</b> 014 How to establish and track a proposed new map unit.
<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>• Use field notes, map unit descriptions, and other records to establish and track new map units according to standards described in the NSSH and the local MOU.</li></ul>
<b>Target Proficiency:</b> <input type="checkbox"/> Awareness <input type="checkbox"/> Understanding <input checked="" type="checkbox"/> Perform w/ Supervision <input 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>• Have access to the NSSH, local MOU (if one exists), and any MO guidance on use of text notes and documentation requirements.</li><li>• Have access to NASIS and a GIS application for measuring MU extent.</li><li>• Have sample map unit files with documentation for demonstration purposes.</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>• 301 How to document mapping with soil descriptions, field notes, sketches, GPS coordinates, and photography.</li></ul>
<b>Notes:</b> None
<b>Authors:</b> Brian Gardner
<b>Approved by:</b> Marc Crouch

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



## OJT Module Lesson

Title: <b>014 How to establish and track a proposed new map unit</b>	
WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Cycle step 1	<p>Trainer and trainee review objectives of module.</p> <p>Trainer and trainee should access via the internet and read/review <b>NSSH Part 627.08</b> and <b>NSSH Exhibit 627-8</b> to review the definitions and standards for map unit documentation. Also review any existing local Memorandum of Understanding for documentation requirements unique to the soil survey area.</p>
<b>Part 1—Establishing the proposed map unit and developing a documentation plan</b>	
Cycle step 2	Trainer shows trainee the following:
1. Trainer provides trainee with two or more examples of a map unit description with its associated documentation in the form these records are kept in the project office.	One of the example map units will be used to lead the trainee through an assessment of documentation currently available vs. complete documentation needed for that MU.
2. Identify at what order the MU is being mapped.	<p>a) Can discuss the concept of order of survey/MU and how it is affected by interpretive need.</p> <p>b) Refer to <b>NSSH Part 627.08</b> to review what forms of documentation are preferred for field delineation and measurement of composition.</p>
3. Determine the extent of the MU.	Demonstrate measurement of extent using GIS application or other method.
Cycle step 3	Trainee performs the following with trainer coaching as necessary:
Trainer determines documentation required for the example MU.	<p>Using the example MU and referring to NSSH, trainee determines the following:</p> <p>a) What types of documentation can be used for identifying the MU in the field? (<b>Exhibit 627-8</b>).</p> <p>b) How many point observations are needed to document MU composition? (<b>Part 627.08 (e) (3)</b>).</p> <p>c) How many pedon descriptions are needed to</p>

	document named components within the MU? ( <b>Part 627.08 (e) (2)</b> ).
Cycle step 4	Trainer gives trainee feedback as the following is determined by the trainee.
1. Trainer observes trainee's assessment of currently available documentation.	<p>a) Is the documentation currently collected for the MU sufficient according to the standards outlined in the NSSH?</p> <p>b) Are there other standards or exceptions listed in the local MOU?</p> <p>c) Does the available documentation adequately capture the spatial variability of the MU?</p>
2. Trainee creates a plan to update documentation if or when one is needed.	<p>a) Discuss how further documentation will be gathered to meet standards</p> <p>b) Discuss when further documentation would become necessary as use of the map unit continues (<b>Part 627.08 (e) (2) and (3)</b>).</p>
<b>Part 2- Tracking</b>	
Cycle step 2	Trainer shows trainee the following:
1. Review database structure and role of map unit history and text notes in NASIS.	See NSSH for discussion of map unit and data mapunit objects in NASIS ( <b>NSSH Part 639.3 (F). (2 &amp; 3)</b> ).
2. Trainer queries NASIS for the DMU and legend objects associated with the example MU.	Show how MU information is stored in the NASIS database.
Cycle step 3	<p>Trainer observes trainee's skill in navigating and using the DMU. Trainer coaches as necessary.</p> <p>a) Demonstrate how MU composition is displayed in NASIS.</p> <p>b) Does the DMU in the database match the documentation already reviewed?</p>
Cycle step 4	<p>Trainee explains how the DMU is linked to the identification legend and its map units via the correlation table.</p> <p>Using an example map unit, ask the trainee if the map unit name in the legend reflects the</p>

	composition shown in the DMU? Including phase criteria?
Cycle step 5	<p>Trainer and trainee discuss how to track changes in map unit concept that arise through use.</p> <ul style="list-style-type: none"><li>a) Show how map unit history text notes can be used to track MU name changes.</li><li>b) Show how correlation of map units is recorded as a map unit text note.</li><li>c) Discuss the significance of provisional vs. approved map units.</li><li>d) Identify any local record-keeping systems that are used in addition to NASIS to track use and changes in MU.</li><li>e) Identify any MO guidance for use of text notes or other MU records.</li></ul>

## OJT Module Lesson Measurement of Learning

Title: **014 How to establish and track a proposed new map unit**

WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Measurement of learning	<p>Trainee should independently perform the following exercise on a new map unit or a sample map unit. Trainee should follow guidance in this document and any MO guidance provided (trainer will provide). The trainee should be able to:</p> <ul style="list-style-type: none"><li>a) Determine the documentation needs for the MU.</li><li>b) Assess if current documentation, if any, is adequate (in terms of both point observations and pedon descriptions).</li><li>c) Explain how and when more documentation may be required.</li><li>d) Enter map unit in NASIS. Find or create a DMU object and linked map unit entry on the identification legend for the MU.</li><li>e) Enter any necessary text notes and assign appropriate legend status to the MU.</li><li>f) Create appropriate records in any locally maintained record system.</li><li>g) Report completion of exercise to trainer.</li></ul>

### **SF-182**

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