

OJT Training Module Cover Sheet

Title: **007 Understand the processes of mapping soils.**

Type: X Skill Knowledge

- **Performance Objective:** Trainee will be able to Know and understand types of soil variability.
- Know and understand scales of soil variability.
- Understand the goal of mapping soils (e.g., mapping soil variability), and how to achieve that goal (tasks).
- Map the soils in a small assigned area meeting standards set by the trainer

Trainer Preparation:

- Trainer should be familiar with the assigned reading/review material in the lesson plan that follows.
- Have one or more block diagrams or other landscape representations of your survey area 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:

- 005 How to differentiate between scales and orders of mapping in soil survey.
- 006 Know what environmental issues exist-how to deal with emergencies.

Notes:

None

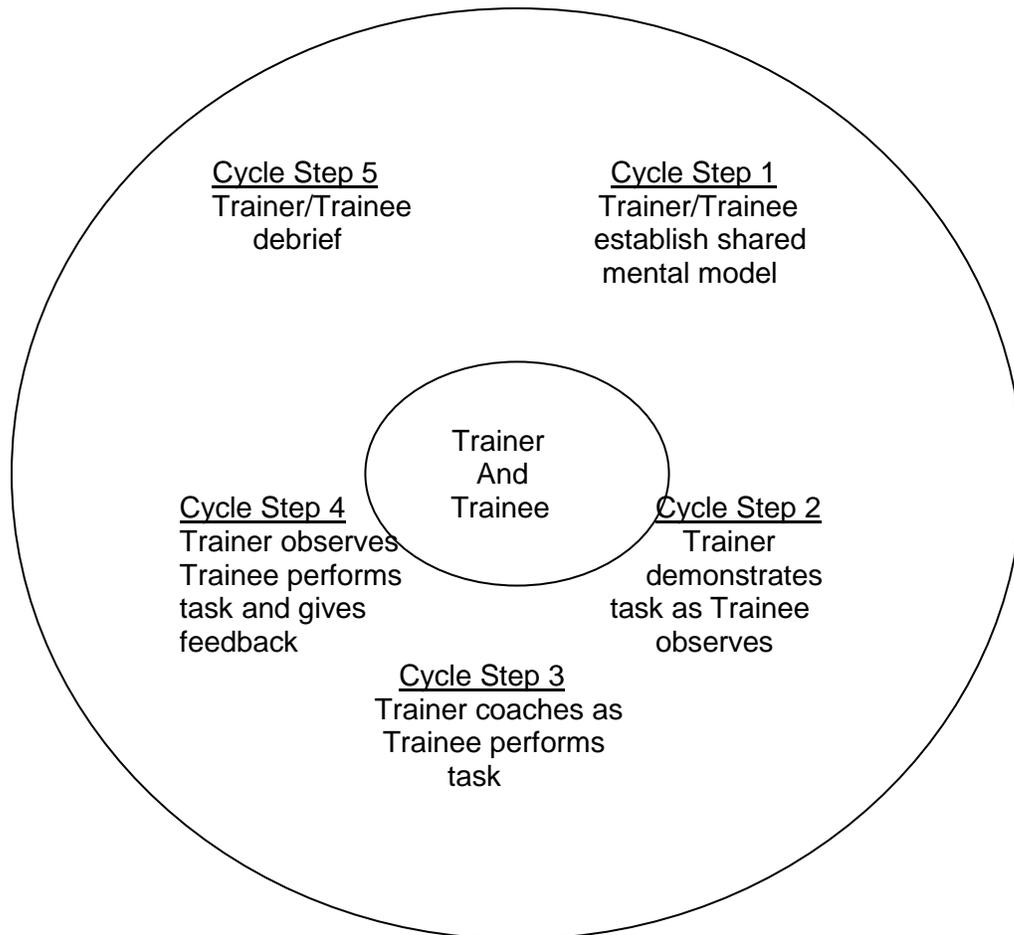
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The Five Step OJT Cycle for Procedural Training (Skill)



OJT Module Lesson

Title: 007 Understand the processes of mapping soils.	
WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Cycle step 1	<p>Discuss the objectives of the module and the why-when-where-how of getting it done, and any safety concerns in your survey area.</p> <p>Open the attached Understanding the processes of mapping soils.pdf. Review and use it as a guide for this training.</p> <p>Other attachments to this module are referenced and used within the pdf.</p>
Cycle step 2	Demonstrate the process of mapping following the the ppt process.
Cycle step 3	Follow the practical exercises outlined on slides #43 and 44 of the ppt.
Cycle step 4	Assign a section or equivalent size area (500-1000 acres) and have trainee complete an initial soil map. Trainer decides whether to be present or not at this stage.
Cycle step 5	See the Module Lesson Measurement of Learning that follows. Return to the assigned area to look at mapping. Discuss what you see and provide tips to help the trainee out if needed.

OJT Module Lesson Measurement of Learning

Title: 007 Understand the processes of mapping soils.	
WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Complete Quiz (attached below)	
Assign mapping	Assign more extensive area to be mapped. Have trainee work on the area without supervision until ready to have it reviewed. Complete a Quality Control review and provide appropriate feedback.

SF-182

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

Quiz

- 1) What is the primary goal of making a soil map?
- 2) Name the three kinds of soil variability?
- 3) Soil Survey focuses on mapping and understanding primarily which type of soil variability?
- 4) Soil scientists are concerned primarily with mapping soil variability at what scale?
- 5) Explain how a “Hole Mapper” makes a soil map?
- 6) Define a soil landscape unit?
- 7) Why are soil landscape units critical to creating a soil map?
- 8) Soils are: a) pedons b) landscapes c) profiles d) landscapes as well as profiles
- 9) List these from smallest to largest: landform component, landscape, landform.
- 10) Summarize the 4 key concepts in making a soil map.
- 11) You have been just been dropped off at a randomly selected MLRA Soil Survey Office. Your first job is to make a soil map of a section of land. Outline the steps you would take to develop a soil map from scratch? Take special note of the information you will be collecting (office work) and the fieldwork you will be doing to create the map.