OJT Training Module Cover Sheet

Title: 002 Understand the relationship of the factors of soil formation in your soil survey area.

Type: □ Skill **X** Knowledge

Performance Objective: Trainee will be able to…

- Understand the five factors of soil formation as exhibited in the local soil survey area.
- Describe the influences of each of the factors on each soil component in the soil survey area.

Target Proficiency:

□ Awareness □ Understanding □ Perform w/ Supervision
X Apply Independently □ Proficiency, can teach others

Trainer Preparation:

- Trainer should be familiar with the assigned reading/review material in the lesson plan that follows.
- Access to soil survey area soils legend.
- Select several soils representing a cross section of the soils in the survey area and have OSDs and/or component pedon descriptions available for each, also pedon photos if available, and/or field sites representing each.

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

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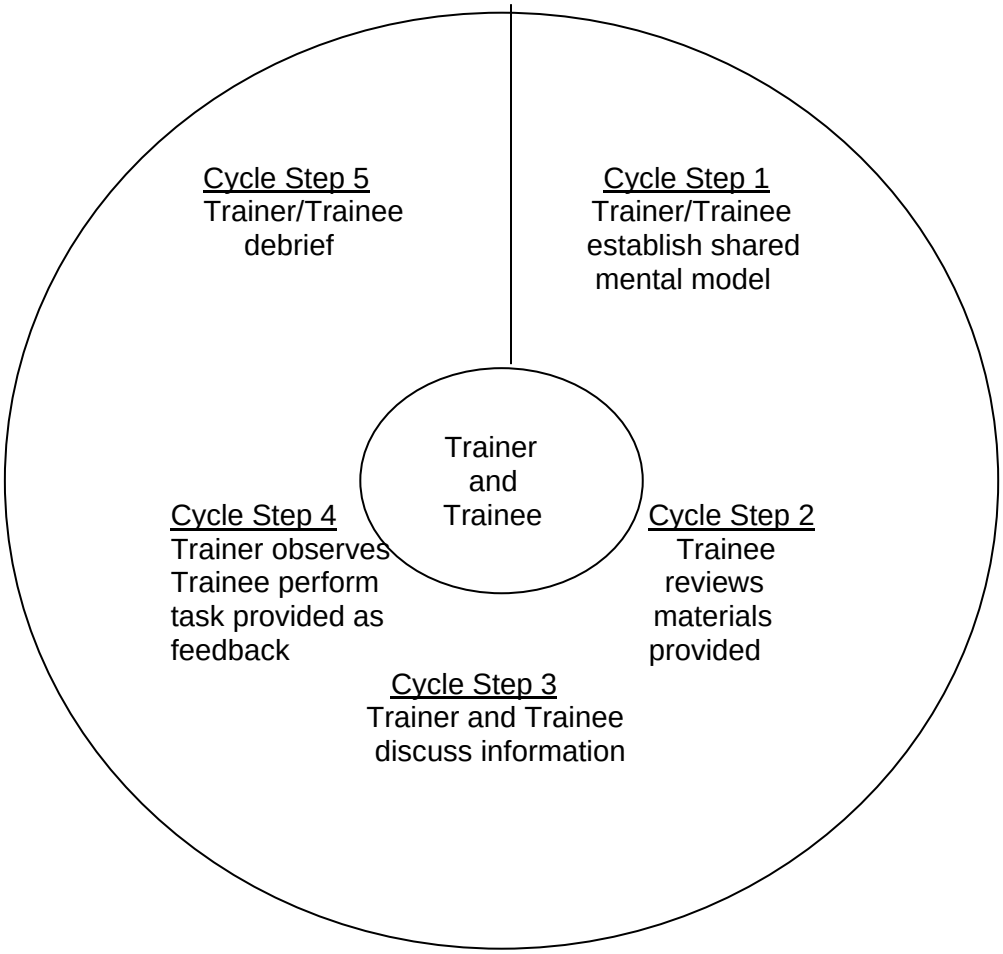
The Five-Step OJT Cycle for Declarative Training (Knowledge)



OJT Module Lesson

Title: **002 Understand the relationship of the factors of soil formation in your soil survey area.**	
WHAT	**WHY, WHEN, WHERE, HOW, SAFETY, QUALITY**

Cycle step 1	Discuss what you intend to cover with this module and how you plan to do it.
	
	Trainer and trainee access via the internet and read/review:
	• Soil Survey Manual, Ch. 1:
	  o **Modern Concept of Soil**
	  o **Factors that Control the Distribution of Soils**
	  o **Soil-Landscape Relationships**
	• Attached file, **Factors of Soil Formation.pdf**

Cycle steps 2 and 3	Use the attached **Factors of Soil Formation.pdf**. As you reach each factor, use what you have prepared (see preparation on cover sheet) and address each factor. Discuss how the 5 factors are expressed by the soil component (pedon and landscape).
Cycle step 4	Complete the **OJT Module Lesson Measurement of Learning** below.
Cycle step 5	Discuss what has been learned and how it applies to everyday work activities. As follow up, any chance you get while in the field in the following time, ask the trainee to repeat this exercise wherever you are.

OJT Module Lesson Measurement of Learning

Title: **002 Understand the relationship of the factors of soil formation in your soil survey area.**	
WHAT	**WHY, WHEN, WHERE, HOW, SAFETY, QUALITY**
Trainee applies what has been learned to a selected set of soils.	Provide several soils from what you prepared and ask trainee to discuss each factor in relation to each soil. If possible, do it in the field so landscapes are better observed and addressed also. Try to cover the major landscapes in your soil survey area so the trainee has a good grasp of what has gone on in the way of soil formation.
Apply what has been learned to Soil Taxonomy	Have the trainee describe any obvious relationship of the 5 soil forming factors to each soil order in Taxonomy. Emphasize those soil orders in your soil survey area.

SF-182

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