**OJT Training Module Cover Sheet**

**Title:** 110 How to describe concentrations.

**Type:** 
- ☐ Skill
- ☑ Knowledge

**Performance Objective:** Trainee will be able to …
- Describe and record concentrations using the Munsell Soil-Color Charts and the *Field Book for Describing and Sampling soils.*

**Target Proficiency:**
- ☐ Awareness
- ☐ Understanding
- ☐ Perform w/ Supervision
- ☑ Apply Independently
- ☐ Proficiency, can teach others

**Trainer Preparation:**
- Trainer should be familiar with the assigned reading/review material in the lesson plan that follows.
- Have soil samples and field locations with pit, trench, road cut, or auger borings available.
- Have the Munsell Soil-Color Charts available.
- Have the *Field Book for Describing and Sampling Soils* available.
- Have hardcopy of the 232 soil description form or Pedon PC 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:**
- 101 How to use the Field Book for Describing and Sampling Soils.
- 102 How to fill out a 232 soil description form.
- 106 How to use the Munsell Soil Color Charts to describe soil colors.

**Notes:**
None

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**Approved by:**
Shawn McVey
The Five-Step OJT Cycle for **Procedural** Training
(Skill)
## OJT Module Lesson

**Title:** 110 How to describe concentrations.

<table>
<thead>
<tr>
<th>WHAT</th>
<th>WHY, WHEN, WHERE, HOW, SAFETY, QUALITY</th>
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</thead>
<tbody>
<tr>
<td>Cycle step 1</td>
<td>Trainee should access via the internet and read <em>Soil Survey Manual, Chapter 3</em> section on <em>Concentrations.</em>&lt;br&gt;Access hardcopy or via the internet and review discussion and description sections for <em>concentrations</em> in the <em>Field Book for Describing and Sampling Soils.</em></td>
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<tr>
<td>Cycle step 2</td>
<td>Do the following:</td>
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<tr>
<td>1. Review what can be recorded according to the <em>Field Book</em> and <em>SSM.</em></td>
<td>Note that kind, quantity (percent of area covered), size, contrast, color, moisture state, shape, location, hardness, and boundary are usually recorded.</td>
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<tr>
<td>2. Demonstrate how to describe and record the concentrations occurring in the survey area.</td>
<td>Do this in the field. Discuss what kinds (finely disseminated, masses, nodules, concretions, crystals, biological, inherited minerals) of concentrations occur in the survey area.</td>
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<tr>
<td>Cycle step 3</td>
<td>Coaching the trainee, have the trainee describe and record concentrations as appropriate in the survey area.</td>
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<tr>
<td>Cycle step 4</td>
<td>Repeat cycle step 3 without coaching. During project activities, assign the trainee the task of describing concentrations as soil descriptions are completed.</td>
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<tr>
<td>Cycle step 5</td>
<td>Answer any questions. Repeat any steps as necessary.</td>
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### OJT Module Lesson Measurement of Learning

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<td>Describe concentrations routinely during project activities.</td>
<td>During project activities, assign this task to the trainee. Sign off on performance when target proficiency is achieved.</td>
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</tbody>
</table>

**SF-182**

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