**OJT Training Module Cover Sheet**

**Title:** 118 Fragments-How to describe kinds of rock and other fragments in the soil.

**Type:** ☒ Skill  ☐ Knowledge

**Performance Objective:** Trainee will be able to …
- Identify and describe kinds of rock and other fragments found in the soil survey area following NCSS guidelines.

**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 field locations with pit, trench, road cut, or auger borings 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.
- 116 How to describe content of rock and other fragments in the soil.

**Notes:**
This module could be completed in conjunction with the module 116 How to describe content of rock and other fragments in the soil.

**Authors:**
Cathy Seybold
Marc Crouch

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

- **Cycle Step 5**
  - Trainer/Trainee debrief

- **Cycle Step 1**
  - Trainer/Trainee establish shared mental model

- **Cycle Step 4**
  - Trainer observes
  - Trainee performs task and gives feedback

- **Cycle Step 2**
  - Trainer demonstrates task as Trainee observes

- **Cycle Step 3**
  - Trainer coaches as Trainee performs task
## OJT Module Lesson

### Title: 118 Fragments-How to describe kinds of rock and other fragments in the soil.

<table>
<thead>
<tr>
<th>WHAT</th>
<th>WHY, WHEN, WHERE, HOW, SAFETY, QUALITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cycle step 1</td>
<td>Access hardcopy or via the internet and review material in the <em>Field Book for Describing and Sampling Soils</em>, focusing on the chart for <strong>kind of rock and other fragments</strong> behind the Fragments tab, and the <strong>bedrock-kind</strong> chart associated with the Rock tab behind the Geology tab.</td>
</tr>
<tr>
<td>Cycle step 2</td>
<td>Do the following:</td>
</tr>
<tr>
<td>1. Review what is recorded according to the Field Book and SSM.</td>
<td>Note that kind is recorded in the <em>Rock Frags</em> column.</td>
</tr>
</tbody>
</table>
| 2. Demonstrate how to describe and record kinds of fragments. | Do this in the field.  
- Do for all size classes as appropriate.  
- Do for rock, pararock and other kinds of fragments.  
- Discuss kinds of “other” fragments that are typical in your survey area.  
- Discuss bedrock related fragments that are typical in your survey area. |
| 3. Demonstrate how you would determine kind of unknown fragments. | Utilize whatever reference you use in your survey area to key out rock and pararock fragments related to geology in your survey area. |
| Cycle step 3 | Coaching the trainee, have the trainee describe and record kinds of fragments as appropriate in your survey area. |
| Cycle step 4 | Repeat cycle step 3 without coaching. |
| Cycle step 5 | During project activities, assign the trainee the task of describing and recording kinds of fragments as soil descriptions are completed. |
| Cycle step 5 | Answer any questions. Repeat any steps as necessary. |
OJT Module Lesson Measurement of Learning

Title: 118 Fragments-How to describe kinds of rock and other fragments in the soil.

<table>
<thead>
<tr>
<th>WHAT</th>
<th>WHY, WHEN, WHERE, HOW, SAFETY, QUALITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe kinds of fragments kinds 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>
</tr>
</tbody>
</table>

**SF-182**

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