Title: 109 How to describe redoximorphic features.

Type: ☒ Skill  ☐ Knowledge

Performance Objective: Trainee will be able to …
- Describe and record redoximorphic features 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.
- Trainer should be familiar with the concepts of describing soil color as discussed in Chapter 3 of the Soil Survey Manual.
- 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.
- If one is in the office or can be located, have a copy of Redoximorphic Features for Identifying Aquic Conditions, North Carolina Agricultural Research Service, Technical Bulletin 301, and December, 1992, 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

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<table>
<thead>
<tr>
<th>WHAT</th>
<th>WHY, WHEN, WHERE, HOW, SAFETY, QUALITY</th>
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</thead>
<tbody>
<tr>
<td><strong>Cycle step 1</strong></td>
<td>Trainee should have accessed via the internet and read <em>Soil Survey Manual</em> Chapter 3 section on <em>Soil Color</em>, focusing on <em>Mottling</em>, which is also relevant to this topic. If available, trainee should read the North Carolina State publication <em>Redoximorphic Features for Identifying Aquic Conditions</em>. Trainee should access via hardcopy or via the internet and review discussion and description sections of redoximorphic features in the <em>Field Book for Describing and Sampling Soils</em>.</td>
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<tr>
<td><strong>Cycle step 2</strong></td>
<td>Do the following:</td>
</tr>
<tr>
<td>1. Review what can be recorded according to the Field Book and SSM.</td>
<td>Note that kind, quantity (% 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 redoximorphic features.</td>
<td>Do this in the field.</td>
</tr>
<tr>
<td><strong>Cycle step 3</strong></td>
<td>Coaching the trainee, have the trainee describe and record redoximorphic features as appropriate in the survey area.</td>
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<tr>
<td><strong>Cycle step 4</strong></td>
<td>Repeat cycle step 3 without coaching. During project activities, assign the trainee the task of describing and recording redoximorphic features as soil descriptions are completed.</td>
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<tr>
<td><strong>Cycle step 5</strong></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 RMFs 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>
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</table>

**SF-182**

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