# OJT Training Module Cover Sheet

**Title:** 132 How to describe saturated hydraulic conductivity.

**Type:** ☑ Skill ☐ Knowledge

**Performance Objective:** Trainee will be able to …
- Understand the concept of saturated hydraulic conductivity.
- Describe and record saturated hydraulic conductivity using 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 field locations with pit, trench, or road cuts 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.

**Notes:**
None

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The Five-Step OJT Cycle for Procedural Training (Skill)
### OJT Module Lesson

**Title:** 132 How to describe saturated hydraulic conductivity.

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<th>WHAT</th>
<th>WHY, WHEN, WHERE, HOW, SAFETY, QUALITY</th>
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| Cycle step 1 | Trainee should access via the internet (Soils/Home/Soil Survey/Publications/Soil Survey Technical Notes) and read the following to become familiar with **saturated hydraulic conductivity**:
  - Soil Survey Technical Note No. 6 - Saturated Hydraulic Conductivity: Water Movement Concepts and Class History
  - *Field Book for Describing and Sampling Soils* section on **Saturated Hydraulic Conductivity**
| Cycle step 2 | Do the following:
  1. Review what can be recorded according to the Field Book and SSM. Note that an estimated $K_{sat}$ class or a measured $K_{sat}$ value is recorded for each horizon/layer.
  2. Demonstrate how to describe and record $K_{sat}$. Do this in the field.
| Cycle step 3 | Coaching the trainee, have the trainee describe and record $K_{sat}$ as appropriate in the survey area.
| Cycle step 4 | Repeat cycle step 3 without coaching at another location.
  During project activities, assign the trainee the task of describing and recording $K_{sat}$ as soil descriptions are completed.
| Cycle step 5 | Answer any questions. Repeat any steps as necessary. |
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<td>Describe $K_{sat}$ 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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**SF-182**

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