### OJT Training Module Cover Sheet

**Title:** 605 How to use a Suunto clinometer for slope and height measurements.

<table>
<thead>
<tr>
<th>Type:</th>
<th><strong>X</strong> Skill</th>
<th><strong>☐</strong> Knowledge</th>
</tr>
</thead>
</table>

**Performance Objective:** Trainee will be able to…
- Measure slope in percent using a Suunto clinometer.
- Measure height of trees and other objects using a Suunto clinometer as needed in soil survey work.

**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.

**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.
- Best done in the field.

**Prerequisite Modules:**
None

**Notes:**
None

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

**Title:** 605 How to use a Suunto clinometer for slope and height measurements.

<table>
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<th>WHAT</th>
<th>WHY, WHEN, WHERE, HOW, SAFETY, QUALITY</th>
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</table>
| **Cycle step 1** | Discuss how clinometer will be used by your MLRA SSO and what the trainee is expected to be able to do upon completion of the training. Trainer and trainee read/review:  
- Attached [Using a Suunto Clinometer in Soil Survey Work.pdf](#), which is a simplified description of the processes.  
- And/or attached [SuuntoClinometerUsersguide.pdf](#) which is provided by Suunto and more comprehensive. |
| **Cycle step 2** | Complete the following demonstrations, including explanation as needed for each. |
| **1. Demonstrate slope measurement.** | Discuss parameters used in documentation for soil survey.  
- Move up or down slope and have the documentation point at a midpoint between you and the selected object you will use to site your measurement.  
- Line of site should be parallel to the direction water would flow overland through the documentation point.  
- Sighting both up and down slope to take care of any concerns you have with results from using the one direction chosen. |
| **2. Demonstrate height measurement.** | Discuss uses for height measurement. Note that tree height in forested areas for woodland site indices is the typical use in soil survey. |
| **Cycle step 3** | This coaching could be done after each demonstration. Have the trainee with coaching repeat the steps for slope and height at the same site or at a new location. |
| **Cycle step 4** | Have the trainee repeat the steps without supervision at the same site or at a new location. |
| **Cycle step 5** | Answer any questions or concerns. Provide feedback as needed. |
OJT Module Lesson Measurement of Learning

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<tbody>
<tr>
<td>Measure slope and object height using a Suunto clinometer.</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.