OJT Training Module Cover Sheet

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

Type: **X** Skill □ Knowledge

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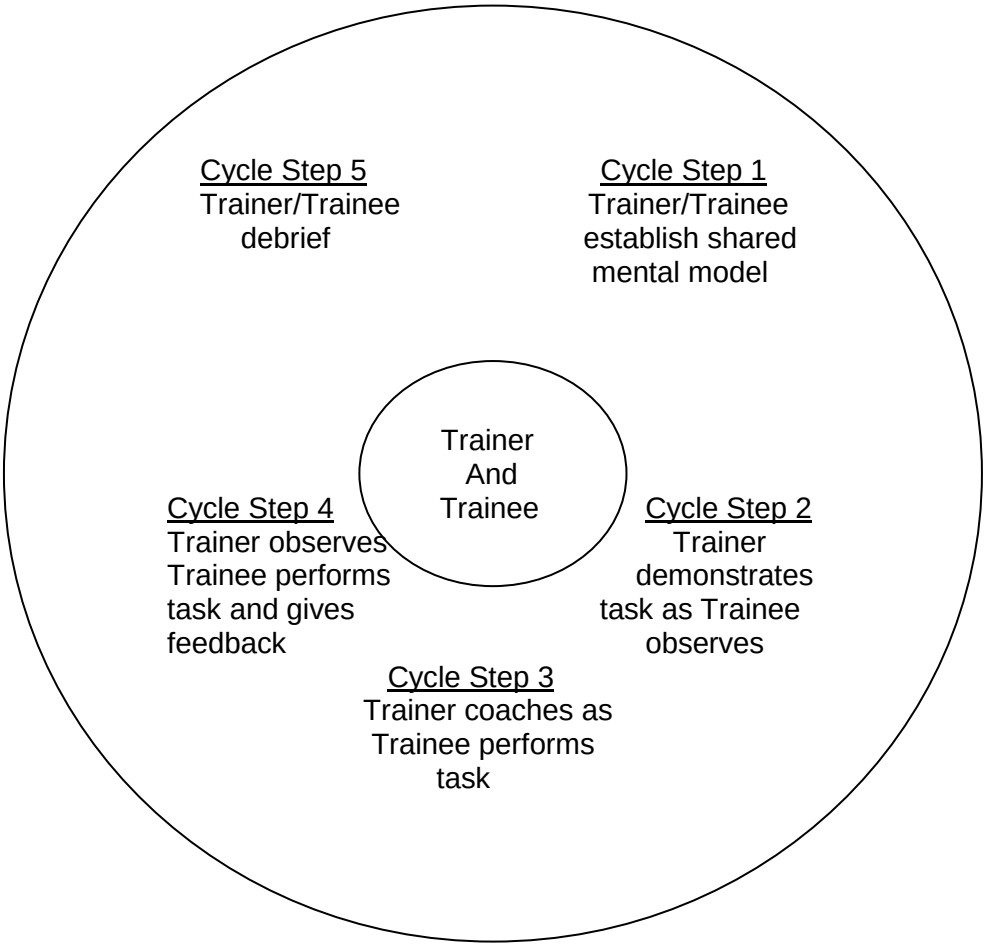
The Five-Step OJT Cycle for Procedural Training (Skill)



OJT Module Lesson

Title: 605 How to use a Suunto clinometer for slope and height measurements.	
WHAT	**WHY, WHEN, WHERE, HOW, SAFETY, QUALITY**
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

Title: 605 How to use a Suunto clinometer for slope and height measurements	
WHAT	**WHY, WHEN, WHERE, HOW, SAFETY, QUALITY**
Measure slope and object height using a Suunto clinometer.	During project activities, assign this task to the trainee. Sign off on performance when target proficiency is achieved.

SF-182

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