

OJT Training Module Cover Sheet

Title: 601 How to manage waypoints and operate, navigate, and determine location using a GPS.

Type: **X** Skill Knowledge

Performance Objective: Trainee will be able to...

- Operate the GPS currently in use according to the manufacturer's operation guidance.
- Manage waypoints as done in their soil survey office using ArcGIS.
- Download waypoints to the GPS.
- Navigate to a location with a stored waypoint.
- Determine location and capture a waypoint with the GPS.
- Download captured waypoints to ArcGIS.

Target Proficiency:

- Awareness Understanding Perform w/ Supervision
X Apply Independently Proficiency, can teach others

Trainer Preparation:

- Locate GPS operation manual.
- Create note file with personal hints for use and procedures.
- Make sure the GPS is operating properly.
- Make sure the current GPS and ArcGIS interface is working properly

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:

None

Notes:

None

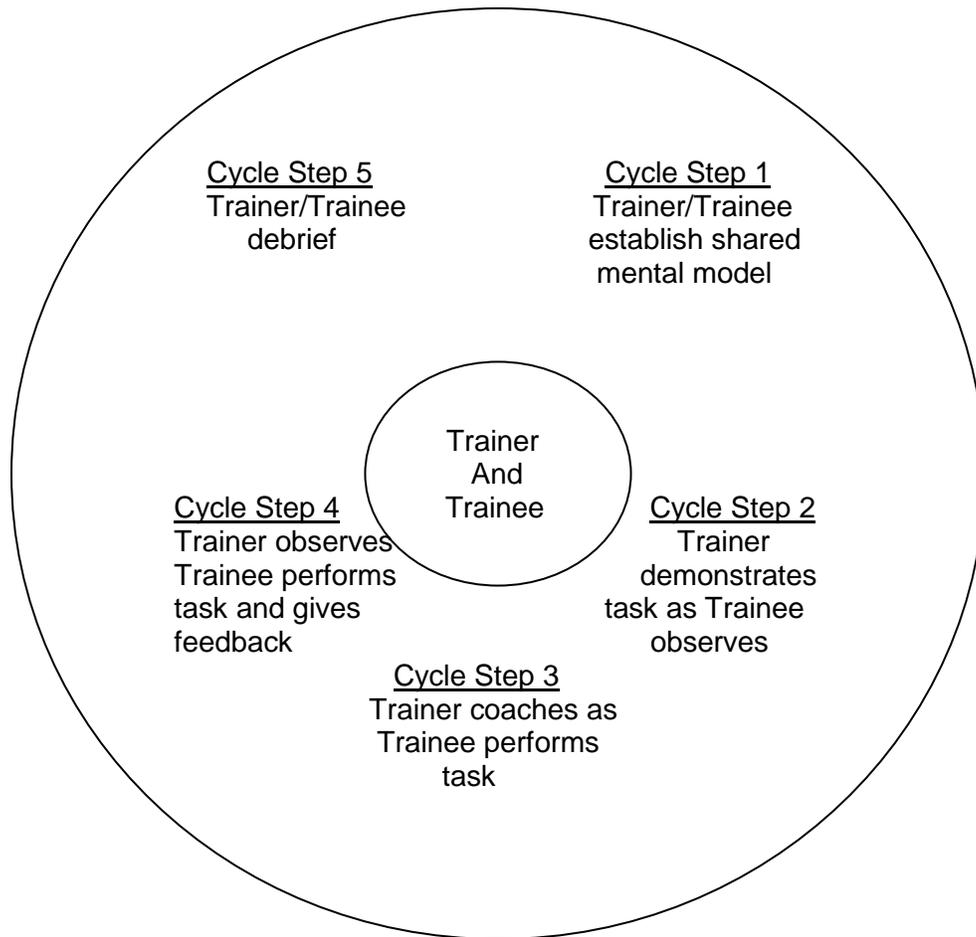
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The Five-Step OJT Cycle for Procedural Training (Skill)



OJT Module Lesson

Title: 601 How to manage waypoints and operate, navigate, and determine location using a GPS.	
WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Cycle step 1	Discuss how GPS will be utilized by your soil survey office and what the trainee is expected to be able to do upon completion of the training.
Cycle step 2	Complete the following six demonstrations, including explanation as needed for each.
1. Demonstrate the capabilities and procedures of the GPS currently in use in the MLRA SSO.	Have the GPS operation manual in the trainee's hand and have them follow along. Cover all aspects of use that are typical in the soil survey office. Do this wherever satellite signals can be achieved. Include any basic operation, safety, security, and maintenance issues. Provide file of personal hints if you have one prepared.
2. Demonstrate use of ArcGIS to capture, store, and provide waypoints.	Do a show and tell with ArcGIS, PedonPC, etc. Discuss use of waypoints in your projects.
3. Demonstrate a download of waypoints from ArcGIS to the GPS.	
4. Demonstrate navigation procedures using waypoints stored on the GPS.	These two demonstrations can be done anywhere; while in the field for this or other purpose, in an area outside your office, etc. Explain expectations for accuracy and what is experienced in your soil survey area. Point out areas of the soil survey area which may have less access to satellites, which affect accuracy.
5. Demonstrate capture of new waypoints for point site data.	
6. Demonstrate downloading of the newly captured waypoints to ArcGIS.	
Cycle step 3	Have trainee complete all procedures demonstrated with coaching. This coaching could be done after each demonstration, one step at a time, or in any combination. Depends upon how comfortable the trainee is with ArcGIS and the GPS.
Cycle step 4	See OJT Module Lesson Measurement of Learning below . Provide feedback as needed. Provide coaching again if needed.
Cycle step 5	Answer any questions or concerns. Provide feedback as needed.

OJT Module Lesson Measurement of Learning

Title: **601 How to manage waypoints and operate, navigate, and determine location using a GPS.**

WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Download existing waypoint(s) to the GPS.	ASAP in relation to the training, put the trainee in charge of the GPS for a scheduled field investigation. Have the trainee complete all operations in regards to waypoint management and GPS operation. Do this for the next several field investigation trips until the trainee is comfortable with your processes and procedures and with management of waypoints and operation of your GPS.
Navigate to existing observation points.	
Capture new waypoints for observation points.	
Download new waypoints from the GPS to ArcGIS or other source.	

SF-182

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