## OJT Training Module Cover Sheet

**Title:** How to use the EM38 with Trimble Yuma and Geonics Dat38W.

**Type:** X Skill □ Knowledge

**Performance Objective:** Trainee will be able to...
- Complete setup appropriate for interfacing the EM38 with the Trimble Yuma
- Gather data using the EM38 and Trimble Yuma
- Process data in DAT38W
- Output data to Microsoft Excel

**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:**
Prepare an external learning request using SF-182 in Aglearn for this activity. Instructions and a template are located on the training webpages for OJT modules.

**Prerequisite Modules:**
- 801 Understand EMI technology
- 802 How to setup and calibrate the EM38

**Notes:**
This module can be separated into field and office activities. Trainer may choose to complete Cycle Steps 2, 3, and 4 for field activities and then return to the office to again go through Cycle steps 2, 3, and 4 for office activities.

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

- **Cycle Step 1**: Trainer/Trainee establish shared mental model.
- **Cycle Step 2**: Trainer demonstrates task as Trainee observes.
- **Cycle Step 3**: Trainer coaches as Trainee performs task.
- **Cycle Step 4**: Trainer observes Trainee perform task and gives feedback.
- **Cycle Step 5**: Trainer/Trainee debrief.
### OJT Module Lesson

**Title:** 805 How to use the EM38 with Trimble Yuma and Geonics Dat38W.

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<tr>
<th>WHAT</th>
<th>WHY, WHEN, WHERE, HOW, SAFETY, QUALITY</th>
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| **Cycle step 1** | Trainer and trainee review objectives of module.  
Trainer and trainee access via the internet [Soils Home/Soil Education/NCSS Members/Job Aids/Investigations] and read/review:  
- EM38 Meter Cookbook.pdf  
  - Using the EM-38 with the Trimble Yuma  
  - Checklist and Notes for Use  
  - How to convert raw data to processed data in DAT38W  
  - Importing data to Microsoft Excel |
| **Cycle step 2** | Trainer shows trainee the following:  
- Start and connect the devices in the proper sequence  
- Complete system setup  
- Complete a sample survey, logging data  
- Process the data and output it to Microsoft Excel  
- Prepare the data in Excel for loading into ArcMap or Surfer software |
| **Cycle step 3** | Trainer coaches trainee as trainee completes the processes demonstrated in Cycle step 2. |
| **Cycle step 4** | Repeat cycle step 3 without coaching. |
| **Cycle step 5** | Trainer can debrief trainee and address any concerns. |
OJT Module Lesson Measurement of Learning

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<td>Trainee’s learning is measured.</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.