# OJT Training Module Cover Sheet

**Title:** 803 How to use the EM38 with Allegro and Geonics Dat38W.

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

**Performance Objective:** Trainee will be able to…
- Complete setup appropriate for interfacing the EM38 with the Allegro data logging device
- Gather data using the EM38 and Allegro data logger
- 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:** 803 How to use the EM38 with Allegro and Geonics Dat38W.

<table>
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<tr>
<th>WHAT</th>
<th>WHY, WHEN, WHERE, HOW, SAFETY, QUALITY</th>
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</table>
| 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 EM38 with the Archer or Alegro CX data logging devices  
  - 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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<tr>
<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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</tbody>
</table>

**SF-182**

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