

## OJT Training Module Cover Sheet

**Title: 805 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.

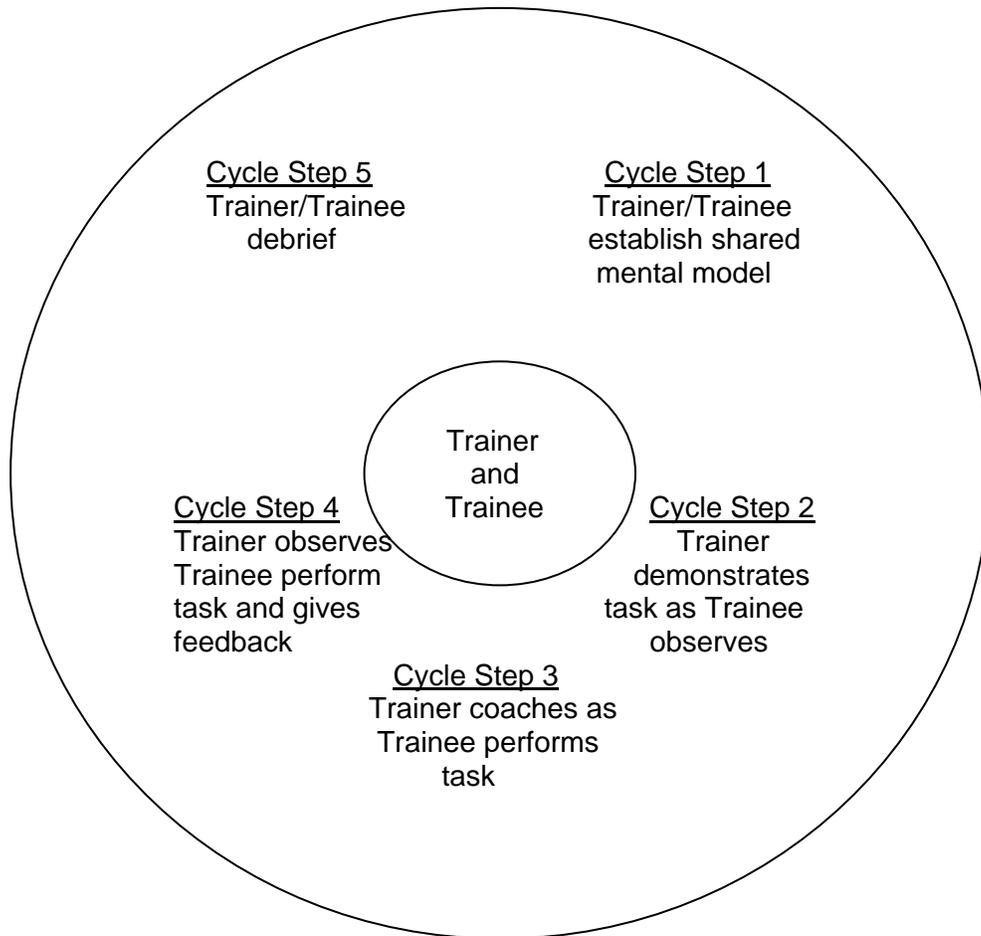
**Authors:**

David Zimmerman  
Keith Anderson  
Marc Crouch

**Approved by:**

Shawn McVey

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



## OJT Module Lesson

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

WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Cycle step 1	<p>Trainer and trainee review objectives of module.</p> <p>Trainer and trainee access via the internet [Soils Home/Soil Education/NCSS Members/Job Aids/Investigations] and read/review:</p> <ul style="list-style-type: none"> <li>• <b>EM38 Meter Cookbook.pdf</b> <ul style="list-style-type: none"> <li>○ <b>Using the EM-38 with the Trimble Yuma</b> <ul style="list-style-type: none"> <li>▪ <b>Checklist and Notes for Use</b></li> </ul> </li> <li>○ <b>How to convert raw data to processed data in DAT38W</b></li> <li>○ <b>Importing data to Microsoft Excel</b></li> </ul> </li> </ul>
Cycle step 2	<p>Trainer shows trainee the following:</p> <ul style="list-style-type: none"> <li>• Start and connect the devices in the proper sequence</li> <li>• Complete system setup</li> <li>• Complete a sample survey, logging data</li> <li>• Process the data and output it to Microsoft Excel</li> <li>• Prepare the data in Excel for loading into ArcMap or Surfer software</li> </ul>
Cycle step 3	<p>Trainer coaches trainee as trainee completes the processes demonstrated in Cycle step 2.</p>
Cycle step 4	<p>Repeat cycle step 3 without coaching.</p>
Cycle step 5	<p>Trainer can debrief trainee and address any concerns.</p>

## OJT Module Lesson Measurement of Learning

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

WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Trainee's learning is measured.	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.