OJT Training Module Cover Sheet

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

Type: **X** Skill □ Knowledge

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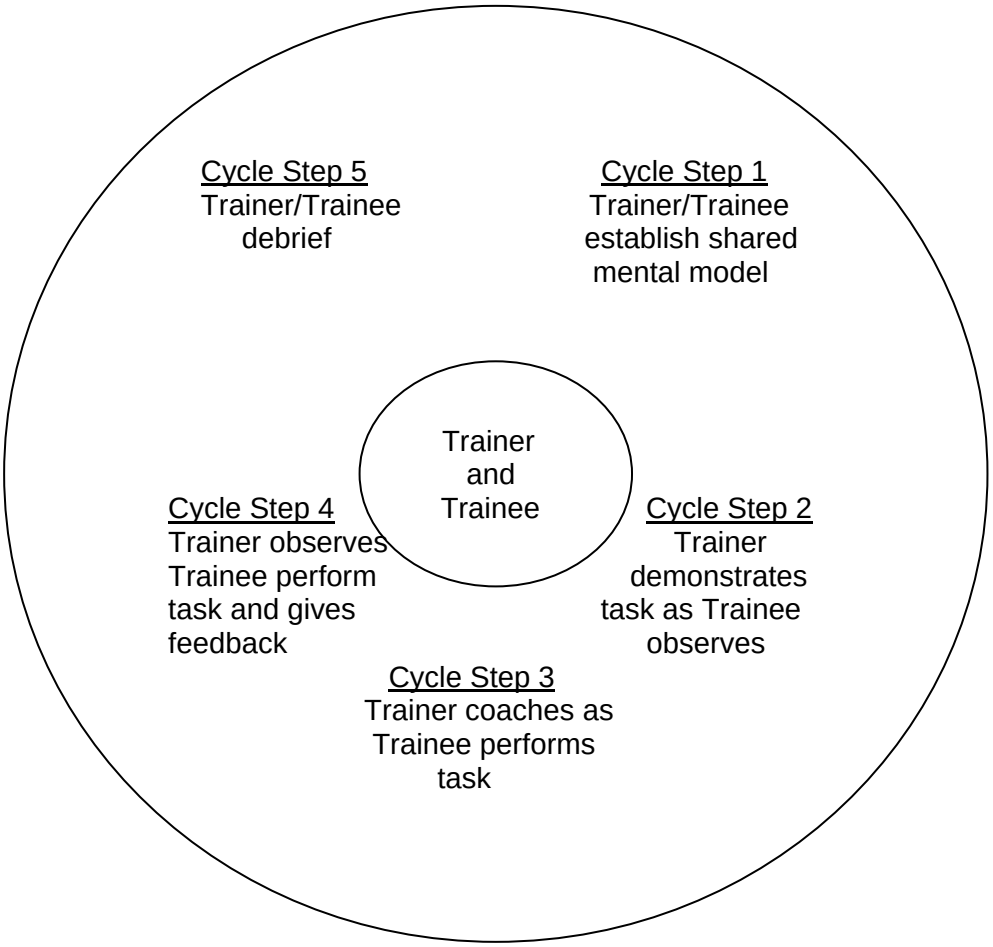
The Five-Step OJT Cycle for Procedural Training (Skill)



OJT Module Lesson

Title: **803 How to use the EM38 with Allegro and Geonics Dat38W.**	
WHAT	**WHY, WHEN, WHERE, HOW, SAFETY, QUALITY**

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
	  o **Using the EM38 with the Archer or Alegro CX data logging devices**
	  o **How to convert raw data to processed data in DAT38W**
	  o **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

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