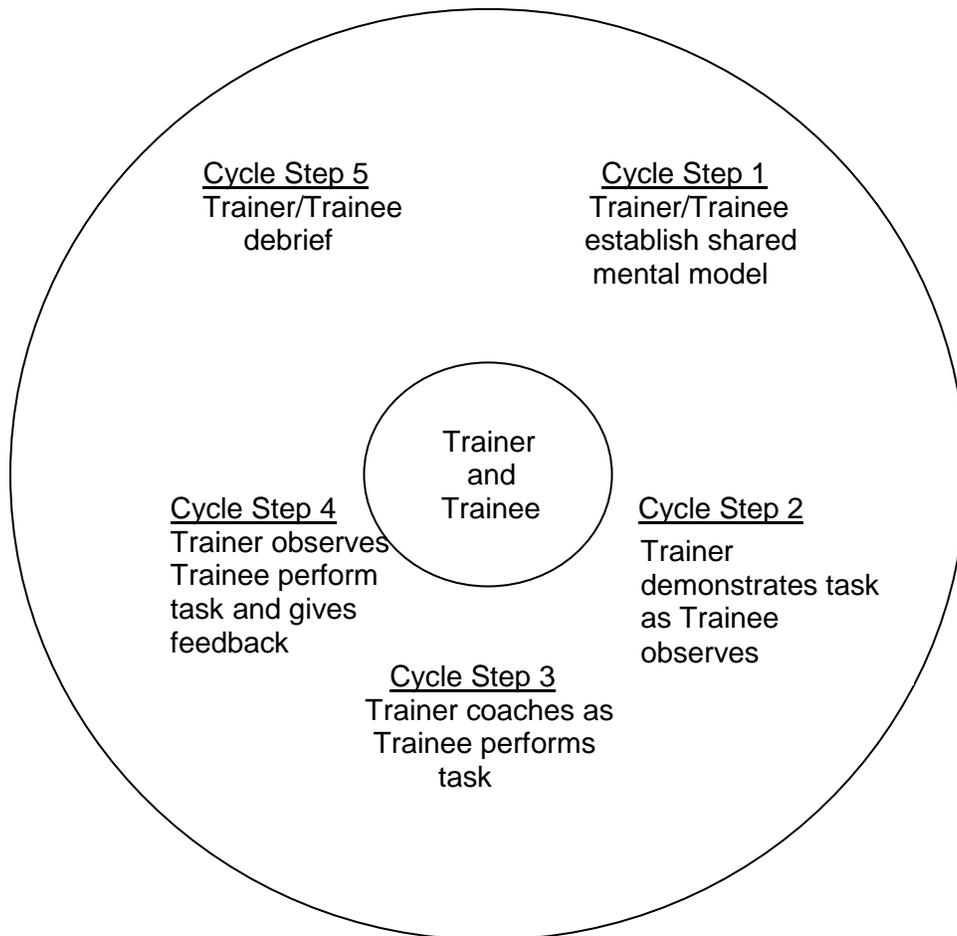


OJT Training Module Cover Sheet

Title: 310 How to prepare SoilDB for use with R
Type: <input checked="" type="checkbox"/> Skill <input type="checkbox"/> Knowledge
Performance Objective: Trainee will be able to ... <ul style="list-style-type: none">• Operate the ODBC (Open Database Connectivity) connection necessary to pull data from a local NASIS database into R.• Manipulate pedon data into R from an ODBC database connection to the local NASIS database and from a MS Access pedon.accdb database.
Target Proficiency: <input type="checkbox"/> Awareness <input type="checkbox"/> Understanding <input type="checkbox"/> Perform with supervision <input checked="" type="checkbox"/> Apply independently <input type="checkbox"/> Proficiency, can teach others
Trainer Preparation: <ul style="list-style-type: none">• Go through the ODBC setup process on your system before you go through it with the trainee.
Special Requirements: <ul style="list-style-type: none">• The trainee needs R and RStudio on their computer and must load the “soilDB” package.• The trainee needs to understand the basic operations of R.
Prerequisite Modules: None
Notes: This applies to pedon data from NASIS or a Pedon PC database.
Authors: Dylan Beaudette, Soil Scientist, CA Jay Skovlin, Soil Scientist, CA
Approved by: Henry Ferguson, Soil Scientist, NSSC Shawn McVey, Soil Scientist, NSSC

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



OJT Module Lesson

Title: 310 How to prepare SoilDB for use with R	
WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Cycle Step 1	Trainee should review the attached job aid that contains excerpts from the online documentation for Soil Database Interface: the soilDB package .
Cycle Step 2	Do the following:
1. Set up and ODBC Connection to the Local NASIS Database.	Demonstrate the procedural steps for finding and starting the ODBC connection. Refer to the attached job aid as needed.
2. Load Pedon Data into R from an ODBC Database Connection.	Demonstrate how to find and start RStudio, and then load pedon data into R from an ODBC database and from a Microsoft Access pedon.accdb database.
Cycle Step 3	You and trainee switch seats. Close the applications so a new session can be started. Coaching the trainee, have the trainee perform the steps in Cycle Step 2.
Cycle Step 4	Have trainee repeat cycle step 3 without coaching. During project activities, assign the trainee the task of collecting and preparing data for use with R.
Cycle Step 5	Answer any questions. Repeat any steps as necessary.

OJT Module Lesson Measurement of Learning

Title: 310 How to prepare SoilDB for use with R	
WHAT	WHY, WHEN, WHERE, HOW, SAFETY, QUALITY
Collect and prepare database data for use in R routinely during project activities.	During project activities, assign this task to the trainee. Sign off on performance when target proficiency is achieved.

Performance Report Form

Open attachment: Trainee Performance Report Form template.pdf.

