

Region 7 Function-Based Wetland Restoration Training Workshop

May 5-7, 2015

Course Agenda

Day 1 – Tuesday, May 5

Classification and Functional Assessment

Location:	EPA Region 7 Office, (Classroom Location) 11201 Renner Blvd, Lenexa, KS 66219
8:00 AM - 8:45 AM	Introductions <ul style="list-style-type: none">• EPA Contact and Jeanne Christie• Instructor and Student Introductions
8:45 AM - 9:45 AM	Introduction to Wetland Classification (NWI and LLWW = NWI+) Ralph Tiner
9:45 AM - 10:15 AM	Classification Exercise and Review: <i>Ralph Tiner</i>
10:15 AM - 10:35 AM	Break
10:35 AM - 11:15 AM	Wetland Functions and Landscape-level Functional Assessment <i>Applying Watershed-Based Preliminary Assessment of Wetland Function (W-PAWF) Technique</i> Ralph Tiner
11:15 AM - 11:35 AM	EXERCISE: Rating Wetlands Based on Landscape-level Approach <i>Matching characteristics to wetland functions</i>
11:35 PM -11:45 AM	Reference Wetlands and Field Indicators of Wetland Functions Ralph Tiner
11:45 AM - 12:45 PM	Lunch (EPA Region 7 cafeteria)
12:45 PM -1:00 PM	Break and Get Ready for Field
1:05 PM	Bus leaves from front of EPA offices
1:20 PM - 4:45 PM	EXERCISE: In-field Classification and Assessment of Functions at Selected Natural Wetlands - Location TBD

4:45 PM - 5:30 PM

Bus Returns to EPA Region 7 Office

Day 2 –Wednesday, May 6

Monitoring, and Wetland Restoration

Location:

EPA Region 7 Office, (Classroom Location)
11201 Renner Blvd, Lenexa, KS 66219

8:00 AM - 8:15 AM

Introduction to Wetland Restoration

Ralph Tiner

8:15 AM - 8:30 AM

Wetland Restoration Planning, Monitoring, and Evaluating Success

Ralph Tiner

8:30 AM - 8:45 AM

Identifying Potential Wetland Restoration Sites

Ralph Tiner

8:45 AM - 9:00 AM

Break and Get Ready for Field

9:00 AM

Bus leaves from front of EPA offices

9:45 AM - 12:00 PM

FIELD EXERCISES:

Field review of a few projects to evaluate their success –
Location(s) TBD

12:00 PM - 1:00 PM

Bus Returns to EPA Region 7 Offices – Box Lunch on Bus

1:00 PM - 3:00 PM

A History of Wetland Drainage, including how to identify
drained and filled wetlands 100s of years later

Tom Biebighauser

3:00 PM - 3:20 PM

Break

3:20 PM - 5:30 PM

Practical Wetland Restoration Techniques

Tom Biebighauser

6:30 PM

**Group Dinner at Longhorn Steakhouse 16689 W 119th St
Olathe, KS 66061**

Day 3 – Thursday, May 7

Restoration of an Ephemeral Wetland (Completed in One Day)

Location: Cedar Nile Creek Future Park Site, 25355 W. 119th St, Olathe, KS (@ 14 minutes from EPA Region 7 Offices – see handout with directions to site)

Principal Instructor: Tom Biebighauser

8:00 AM Arrive at the Cedar Niles Future Park Site, Johnson County Park & Recreation District. Lunch will be provided during the day. Please bring hard hat, safety vest, and gloves if you have them. We will supply for those that don't. We will be working outdoors all day.

These field exercises and activities will take place during the course of the entire day as the restoration takes place:

- Safety discussion
- Review wetland project location
- Restore a wetland using heavy equipment
- Removal of non-native plants
- Topsoil removal and salvage
- Groundwater dam construction
- Spillway construction
- Replacement of topsoil
- Placement of large and small woody debris
- Toad house construction
- Seeding and planting with native species
- Mulching using wheat straw

12:00 PM Lunch

In addition while the wetland construction is under way the class will undertake a Field Design of Wetlands lab exercise. This will include:

- Selection of wetland restoration sites
- Measuring slope
- Determining groundwater elevation
- Determining soil texture
- Heavy equipment selection
- Budget estimates for construction
- Discussion of contract types
- Overview of contract administration
- Minimizing damage by unauthorized motor vehicles
- Building wetlands to benefit rare species of plants and animals

4:30 PM Wrap-up

5:00 PM Construction ends for the day.

We ask that you plan to attend for the entire day so you don't miss critical construction steps.