

WETLAND TRAINING INSTITUTE



2017

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SCHEDULE

Courses for *YOUR Convenience!*
eSession from your home or office.
Contract courses for your company.

*4th class I've taken from WTI
– have not only thoroughly
enjoyed them,
but learned a lot.*

Darren H., Alexandria, MN

P. O. Box 31 • Glenwood, New Mexico 88039 — Phone: 1-877-792-6482 or 575-539-2493
www.wetlandtraining.com — E-mail: getinfo@wetlandtraining.com



Wetland Training Institute, Inc. (WTI)

was formed in 1989 to meet the educational and technical resource needs of professionals involved in all aspects of water resource conservation, management, and regulation. It is composed of an association of more than 20 individuals from private industry, academia, and government. It is this amalgam of highly qualified and widely respected professionals that is the backbone of the courses and information available through WTI.

GENERAL INFORMATION

WHY TAKE A WTI COURSE?

Today there are many different providers of training related to wetlands and the Corps of Engineers' Regulatory Program. Many universities and private companies advertise wetland delineation courses. How can you know which is the **best value for your limited training funds**? We suggest you look at the backgrounds and experience of the instructors and read participants' comments on our website.

WTI selects its instructors not only for their academic training and abilities to teach, but because of their backgrounds in the subject matter and their continuing application in the real world of wetland and water regulation. Each has an outstanding academic background. Beyond that, WTI instructors have been actively involved in the development of the technical procedures, manuals, policies, regulations, and judicial decisions that are the backbone of wetland science and wetland regulatory programs and they continue applying that expertise in permit cases throughout the country. See Instructor Bios on our website at www.wetlandtraining.com.

COURSE CONTENT

Most WTI courses have broad applicability throughout the United States. Thus, whether you take Basic Wetland Delineation in the Southwest or Planning Hydrology, Vegetation, and Soils for Constructed Wetlands in the Northeast, the majority of the information in both classes will be applicable in either place. Courses on Plant Identification are regionally focused. **Participants who successfully complete any WTI course receive a certificate of completion.**

The atmosphere at all courses is informal. In specified courses, your daily attire should be suitable for field excursions. In those courses, expect to get wet, dirty, and tired. Normally participants are not exposed to water greater than ankle deep, but obviously we cannot guarantee any particular field conditions.

REGISTRATION AND PAYMENT

Openings in each course are limited and will be filled on a first-come, first-served basis.

WTI has several methods of payment for those registering for a course. Payment options include PayPal, credit card (VISA or Mastercard), check, or government Purchase Order. Go to www.wetlandtraining.com for more payment information.

If you have no internet connection, call for a registration form that can be mailed back with payment to **Wetland Training Institute, PO Box 31, Glenwood, NM 88039.**

A deposit of \$350 per session will be charged to your credit card at the time of registration, and the balance will be charged upon confirmation of the class. If payment is made by check, the full tuition or a deposit of no less than \$350 must be received by Wetland Training Institute within five business days of registration. Your space will be held for those five days, but if payment is not received your registration will be considered incomplete and a place in the course will no longer be reserved for you. A copy of a government Purchase Order will be accepted in lieu of a deposit.

CONFIRMATION

WTI confirms courses as soon as there is adequate enrollment to cover cost but no later than two weeks before the start of the class. We make every attempt not to cancel classes, but sometimes it is unavoidable. After WTI has determined there are sufficient students to conduct a session, a confirmation letter will be e-mailed to those with complete registrations.

The confirmation letter will be e-mailed to you at the address provided in your registration. It will provide course details including the course schedule and the price, location, and phone number of the venue where the course lectures will be held. The confirmation letter will also include other pertinent information regarding the course in which you are registered and a list of items you should bring.

Upon receipt of the Confirmation Notice the balance of your tuition is due and payable either by check or PayPal, or if you are paying by credit card, the balance will be charged by WTI.

ACCOMMODATIONS/TRANSPORTATION

Lodging and meals are not included in the registration fee. Most sessions are conducted at commercial hotels. For all courses of more than one day in length, WTI will attempt to reserve a block of rooms for participants to make their own reservations if they wish to stay at the course venue.

Transportation to and from course locations is the responsibility of each participant. **In most cases, transportation for field trips is provided by WTI. Unless otherwise noted, courses begin promptly at 8:00 AM on the first day,** and most end at 3:00 PM on the final day.

CANCELLATIONS AND REFUNDS

Deposits received after a session has been filled to maximum enrollment will be returned. Should it become necessary for WTI to cancel a session, registrants will be contacted and offered the opportunity to participate in another session or to receive a full refund.

To cancel a registration and receive a full refund, WTI must receive a written notice (includes e-mail) at least two weeks prior to the session. Cancellations in writing after that time, but more than one week prior to the session, will receive a 75% refund. No refunds will be given for cancellations the week prior to a session.

CUSTOM COURSES

WTI has custom designed and conducted numerous courses for government agencies and engineering and consulting firms to meet the specific needs of each organization's staff, including environmental specialists, planners, executives, and construction managers. WTI is ready to customize a curriculum that meets your staff's training needs in a cost-effective manner. To obtain more information or to discuss options and training possibilities, please contact us at 877-792-6482 or 575-539-2493.

WETLAND DELINEATION

These courses focus on the application of the Regional Supplements and the portions of the 1987 Wetland Delineation Manual still valid as used by the Army Corps of Engineers (Corps) and numerous state governments. Learn the technical guidelines for wetland delineations, field indicators of hydrophytic vegetation, hydric soils, and wetland hydrology, methods for making jurisdictional determinations and methods to apply

in difficult situations. Class time is divided between lecture and fieldwork. Materials include a *Pocket Guide to Hydric Soil Field Indicators 2013 Edition*, a USB drive (containing the 1987 Wetland Delineation Manual, current Regional Supplements, National Wetland Plant Lists, and other publications), and Lecture Notes. Instructor pool: Newling, Pierce, Teaford, Scoles, and Gilbert.

Basic Wetland Delineation

5 days - \$1175

This course satisfies the requirements for basic delineation training as specified by the Corps of Engineers and certification programs in many states. 24 hours lecture; 16 hours field. The instructors have extensive delineation experience and familiarity with a large variety of wetlands. Find information on the Basic Wetland Delineation with Field Practicum eSessions on page 4.

February 6-10 • San Diego, CA
April 3-7 • Houston, TX
April 24-28 • Sacramento area, CA
May 8-12 • Great Bend, KS
May 22-26 • Portage, WI
June 12-16 • Mesquite, TX
August 7-11 • Rigby, ID
August 21-25 • Arlington, WASH
September 11-15 • Covington, LA
September 25-29 • Portage, WI

Wetland Delineation with Emphasis on Soils and Hydrology

6 days - \$1375

Learn basic wetland delineation while developing a stronger foundation in important aspects of soils and hydrology. Receive all the subject matter covered in our standard 5-day wetland delineation course plus become more equipped to handle the unusual with confidence. 28 hours lecture; 20 hours field.

June 5-10 • Poolesville, MD

Problematic Delineation Seminar

3 days - \$800

Intended for professionals with prior training and/or multiple years of experience in wetland delineation. Through a combination of group discussions, lecture, and field site visits, this course will explore the issues involved and techniques required when delineating in "Problematic Wetland Situations." A variety of commonly encountered disturbed areas and naturally problematic situations will be discussed. Students will be encouraged to present a case study of their own most challenging personal encounters with problematic wetland situations. Instructor: Newling.

July 12-14 • Portage, WI

Wetland Delineation Refresher

2 days - \$575

The field practicum portion of our Basic Wetland Delineation eSession with Field Practicum is open to those who have had a full, basic wetland delineation course in the past and want a refresher on field practices. To be clear from the start, this course alone does not satisfy completely the requirements for basic delineation training as specified by the Corps of Engineers. There are no lectures with the Wetland Delineation Field Practicum Refresher Course – only two days (16 hours) of intensive field work. The prerequisite for this course is completion of a basic wetland delineation course (at least 32 contact hours) in the past from Wetland Training Institute, Inc. or any other provider. When registering, please identify the date, location and provider of the original course. Materials, to be sent for review prior to the course, include Lecture Notes, a *Pocket Guide to Hydric Soil Field Indicators 2013 Edition*, and a USB drive (containing current 1987 Wetland Delineation Manual, Regional Supplements, Plant Lists, and other publications). Registrants will be given access to the Basic Wetland Delineation eSession Forum discussion site to ask questions prior to arriving at the Field Practicum.

February 13-14 • San Diego, CA
March 30-31 • Houston, TX
May 1-2 • Sacramento area, CA
May 18-19 • Portage, WI
May 22-23 • Omaha/Lincoln, NE
June 21-22 • Williamsport, PA
June 26-27 • Anchorage, AK
July 12-13 • Laramie, WY
August 28-29 • Arlington, WASH
September 7-8 • Whitefish, MT
September 18-19 • Covington, LA
September 21-22 • Poolesville, MD
October 18-19 • Richmond, VA
November 2-3 • Charleston, SC

Save \$100!

Take Plants of the Wetland Boundary eSession and a Wetland Delineation course.
See page 5 for refund details.

WTI will teach
Basic Wetland Delineation ~ March 13-17
for **Portland State University**
For more information, or to register, call: 503-725-5388,
or email: epp@pdx.edu

eSESSION COURSES

To accommodate those who may not be able to devote up to five days away from their homebase, are restricted by budgetary/travel constraints, and/or enrollment has been too low to conduct live sessions, WTI offers a number of classes online - *eSessions*. We have developed a variety of formats to offer more choices to meet your needs. In each, participants receive appropriate materials in the mail and online after registration. The lectures are the same as provided in our live sessions. Many of the eSessions are *cloud-based* lectures with pre-recorded narratives. Accessing the *cloud*, participants can move at their own pace through the lectures. In every course, our web forum is available to ask questions, view/post additional material from instructors and other participants, and participate in discussions. Unlike live sessions, participants can return to lectures

as frequently as they wish during the eSession period. Periodically, at times convenient to the majority of the participants, teleconference calls may be conducted to discuss the materials and address questions. Successful completion of eSessions ultimately is your responsibility. Active participation in online and teleconference discussions, sharing insights, experience and opinions will enhance the knowledge gained. Except for *Principles of Wetland Ecology*, eSessions can be started at any time during the year after the opening date. Check out sample online lectures at: www.wetlandtraining.com/sample-essessions/
Unless indicated otherwise, all eSessions must be completed prior to November 30 of the same year.

Basic Wetland Delineation eSession with Field Practicum

Opens December 12, 2016 - \$1175

Materials and content are the same as identified in the location-based classes (see top of page 3). Expect to spend a minimum of 24 lecture contact-hours that can be started at any time, but must be completed prior to attending the field session selected at the time of registration. Successful completion requires presence at one 16-contact-hour field session.

Field Sessions (pick one):

February 13-14 • San Diego, CA
March 30-31 • Houston, TX
May 1-2 • Sacramento area, CA
May 18-19 • Portage, WI
May 22-23 • Omaha/Lincoln, NE
June 21-22 • Williamsport, PA
June 26-27 • Anchorage, AK
July 12-13 • Laramie, WY
August 28-29 • Arlington, WASH
September 7-8 • Whitefish, MT
September 18-19 • Covington, LA
September 21-22 • Poolesville, MD
October 18-19 • Richmond, VA
November 2-3 • Charleston, SC

Principles of Wetland Ecology

Opens January 23, 2017 - \$675

Principles of Wetland Ecology is self-study with forum interaction focusing on principles relating to zonation, assembly rules, hydrologic pulsing, plant adaptations, fertility, and functions. Readings will be from Paul Keddy's *Wetland Ecology Principles and Conservation* 2nd ed. (participants must purchase), internet-supplied literature, and comments and explanation by the instructor. Expect to spend a minimum of 40 contact-hours. Successful completion of the eSession requires active participation in online and teleconference discussions, sharing insights, experience and opinions. All work must be completed by June 5, 2017.

Federal Wetland/Waters Regulatory Policy

Opens December 12, 2016 - \$1000

Materials and content are the same as identified in the location-based classes (see top of page 7). Expect to spend a minimum of 32 contact hours.

Nationwide Permits 2017 NEW! NEW! NEW!

Opens February 28, 2017 - \$275

NWPs have been revised and take effect March 18, 2017. 95% of all activities authorized by the Corps come under nationwide or other general permits. You need to know them! Materials include *Nationwide Permits Complete 2017 Edition* and Lecture Notes. Expect to spend a minimum of 8 contact hours. Not familiar with the NWPs and need more policy background? Sign up for Federal Wetland/Waters Regulatory Policy (see above and top of page 7).

Advanced Hydrology for Jurisdictional Determinations

Opens December 12, 2016 - \$850

Go beyond basic wetland hydrology and hydrologic indicators. This course provides an in-depth treatment of the principles, concepts, and methods essential for working with disputed jurisdictional boundaries. Policy includes: wetlands, other waters, ordinary high water marks, and "Significant Nexus." Technical concepts include: saturation, porosity, Darcy's law, hydraulic conductivity, permeability, infiltration, use of climate records, calculation of runoff, groundwater observation well installation, well data analysis, stream flow analysis, rating curves, and the effects of drainage by streams, ditches, and tiles. Expect to spend a minimum of 24 contact hours.

eSession Courses

**The perfect way to get credits for your
Professional Wetland Scientist
certification without ever having to leave home!**

Plants of the Wetland Boundary eSession

Open December 12, 2016 - \$425
Register with a live or eSession wetland delineation course this year - \$100 refund!

These 24-contact-hour courses are designed to give participants the knowledge and skills necessary to identify many commonly encountered plants found on either side of the wetland boundary in various regions of the U.S. (and adjoining Canada). Currently the **Northeastern**, **North Central**, and **Southeastern** regions are ready for registration and study. The courses focus on basic plant identification, terminology, keying, and field characters. A self-directed field component provides participants opportunity to submit digital photographs of plants they have identified for verification and to interact on a dedicated Forum page. Lecture notes, provided through the Forum, are full color and either two or three images per page which can be printed full color (recommended) or black and white. **PRINTING OF THE LECTURE NOTES IS THE PARTICIPANT'S RESPONSIBILITY.** These courses are best suited for beginner to moderate skill levels and are ideal to prepare for a wetland delineation course. The WTI website has a list of plant species covered in each course. Instructor: Knapp.

WETLAND CONSTRUCTION AND RESTORATION

Planning Hydrology, Vegetation, and Soils for Constructed Wetlands

4 days - \$1025

This course covers critical elements for construction and restoration of wetlands. These principles are requisite for mitigation projects and for mitigation banks regardless of size. The elements covered include establishing goals, site selection, defining and quantifying hydrology, preparing vegetation plans, and establishing a proper soil substrate. A field trip, emphasizing hydrology and site selection, will focus on factors that caused success and how to avoid those that caused failure. On completion, participants should be able to prepare all of the critical elements for wetland construction and restoration plans. A copy of *Wetland Mitigation: Planning Hydrology, Vegetation, and Soils for Constructed Wetlands*, by Gary Pierce and Mallory Gilbert (see page 7), is provided. Instructor: Gilbert.

June 20-23 • State College, PA

Riparian Habitat Restoration for the Arid Southwest

2 days - \$625

The basics of habitat restoration/replacement of functions and services for wetland and riparian areas are covered. On the first morning, the classroom session will cover the fundamental elements of site selection, preparation, and installation essential to successful restoration planning. Field trips during the remainder of the course will center on case studies that illustrate how these elements come together to make a successful restoration project as well as common mistakes that are made during the process. Instructors: Sward.

September 14-15 • San Diego, CA

ADVANCED TECHNICAL COURSES

Advanced Hydric Soils

3 days (1 online, 2 in field) - \$775

New course format for 2017 - more field stops and learning opportunities! Online lectures on soil formation, redoximorphic features, soil color, drained hydric soils, and wetlands not meeting indicators will prepare the participant for the field exercises and additional instructor's lectures on regional hydric soil indicators and problematic situations. The online lectures can be started at any time, but must be completed prior to attending the field session selected at the time of registration. Informed insights and a focus on field techniques and proper documentation should greatly improve the participant's command of the Field Indicators of Hydric Soils, a major aspect of the Regional Supplements for wetland delineation. Field visits will examine natural, landscaped, and disturbed conditions and include time for in-depth questioning of a knowledgeable instructor to reinforce the lectures. Participants will receive Lecture Notes, *Pocket Guide to Hydric Soil Field Indicators*, and a USB drive containing the current Regional Supplements and other pertinent reference publications. Instructor pool: Gilbert, Scoles, Newling.

February 15-16 • San Diego, CA
April 10-11 • Sacramento area, CA
May 22-23 • State College, PA
June 28-29 • Anchorage, AK
July 17-18 • Denver, CO
August 1-2 • Portage, WI

MORE ADVANCED TECHNICAL COURSES

- **Advanced Hydrology for Jurisdictional Determinations**
Look under eSession courses - page 4.
- **Problematic Delineation Seminar**
Look under Wetland Delineation courses - page 3.

What our participants say...

Delineation ... *I feel much more confident about wetland delineations, and how to fill out the data sheet. Overall enjoyable. I will get to brag to my co-workers about the caliber of teachers I had.* Jaimlyn K., Houston, Texas

eSession ... *My first class with WTI was the basic delineation class in the early 90s. I subsequently took many other classes. My career took me away from wetlands work for several years but with a new position I'm glad to be working again in the field. It's like coming home to old friends! Glad you guys are still in business, providing an excellent service through quality classes!* – Dennis P., Austin, TX

Planning Hydrology, Vegetation, and Soils for Constructed Wetlands ... *Excellent instructor. Very knowledgeable, but more importantly, he can pass on that knowledge clearly and effectively.* TJ A., Dover, DE

Plants of the Wetland Boundary ... *This was an awesome class with a good amount of valuable detail and easy to follow.* Jon B., Elmira, NY

PLANT IDENTIFICATION

Courses on plant identification, by the very fact that different species are found in different regions of the country, are directly applicable to the locales where the session is offered. WTI is pleased to have excellent plant taxonomists from across the country offering courses to identify plants found at the wetland/nonwetland interface for those doing wetland delineation, management, restoration, and functional assessment. In each session, participants will be presented with general plant identification principles and diagnostic field characteristics to enable ready distinction between species with very similar appearances. Many of these characteristics are in addition to those noted in field guides. Expect to be exposed to 100-200 species of plants. Instructor pool: Knapp, Newling, Sward, and Thomasson.

Instructor's personal style dictates the proportion of lab and field time. Check the WTI website for more details on a specific session

Identifying Grasses, Sedges, and Rushes

4 days - \$935

This part lab and part field course is designed to give participants the knowledge and familiarity necessary to identify members of these difficult families. Participants will learn vocabulary, work extensively with keys, and hone dissecting skills. Participants will be exposed to well over 100 species through prepared specimens and field work. Field sites will be primarily wetland. Field identification and reinforcement will be stressed whenever possible. Given the course location Carex and numerous grass genera will be emphasized. This course is designed to accommodate all skill levels. Instructor: Knapp.

May 8-11 • Spartanburg, SC

Graminoids (Grasses, Sedges, Rushes) Identification for Wetlands and Wetland Delineators

4 days - \$935

A course developed for wetland delineators and others needing to recognize and identify graminoids in wetlands, especially species likely to be seen in the field during wetlands delineation. In the lab participants will be introduced to sufficient plant terminology to enable them to use regional floristics keys and the internet to identify graminoid species. A USB drive of color, labeled images illustrating essential graminoid features and characteristics will be provided. In the field, trips will be made to a fen, a salt marsh, a fringe marsh near a lake, and an emergent marsh (Cheyenne Bottoms) in order to observe graminoid species commonly seen in wetlands and at wetland boundaries in the lower Midwest and Plains. Lists of graminoids seen at sites visited and in the region will be provided. Instructor: Thomasson.

May 23-26 • Hays, KS

Plant Identification for Coastal Southern California

3 days - \$785

This course is designed to teach important species in and near southern California wetlands. Classroom time will be spent highlighting key families, genera, and species, and learning to use a plant identification key. Field time will be spent touring common native habitats and learning the species that comprise them. The class will familiarize participants with riparian, coastal salt marsh, freshwater marsh, coastal sage scrub, and chaparral species. Course content is useful for plant identification for wetland delineations, the California Rapid Assessment Method (CRAM), and other species based field studies. Each participant will receive a copy of the *Flora of the Santa Ana River and Environs, California Plant Families West of the Sierran Crest and Deserts*, and other supplemental information. There are two optional texts: *San Diego County Native Plants* (\$27) and *Wildflowers of Orange County and the Santa Ana Mountains* (\$35). Instructor: Sward

June 7-9 • San Diego, CA

Plant Identification for Wetland Delineators

4 days - \$935

A course designed for wetland delineators working in the Upper Midwest. Through a combination of field site visits and classroom familiarization with the use of floristic keys, students will learn identification principles, descriptive vocabulary, and diagnostic characteristics of species frequently encountered by wetland delineators on the wetland-nonwetland interface of a wide variety of Upper Midwest habitats. Plant lists are provided. Instructor: Newling.

July 25-28 • Portage, WI

Plant Identification for Wetlands and Wetland Delineators

4 days - \$935

A course developed for wetland delineators and others needing to identify plant species used in defining wetlands and wetland boundaries, especially in the lower Midwest and Plains. Extra emphasis will be placed on species in the sedge, grass, rush, and daisy families due to their importance and abundance in wetlands. In the lab participants will be introduced to sufficient plant terminology to enable them to use regional floristics keys and the internet to identify plant species. Field experience recognizing many common wetland species will be provided through trips made locally to a fen, a fringe wetland at a lake, a salt marsh, and an emergent marsh (Cheyenne Bottoms). Plant lists, texts for keying, and a USB drive prepared by the instructor of color, labeled images of many species seen in the lab and field are provided. Instructor: Thomasson.

August 15-18 • Hays, KS

Plants of the Wetland Boundary eSession

Look under eSession courses - page 5.

Register with a Wetland Delineation course in 2017 and get a \$100 refund.

POLICY

Federal Wetland/Waters Regulatory Policy

4 days - \$1000

This course provides the knowledge that is necessary to proceed through the US Army Corps of Engineers permit process with minimum cost and delay. Progress from a basic understanding of what the federal laws, regulations, and policies require and how the judicial decisions have affected them to a familiarity with the jargon, definitions, nationwide and individual permits, mitigation policies, and the administrative appeals process. Develop a firm grasp on the role of each of the agencies involved and how to effectively deal with the regulatory process. Receive a USB drive containing the *Federal Wetland Regulation Reference Manual with Updates, Nationwide Permits Complete 2017*, and Lecture Notes. Class ends at 5:00 P.M. on the last day.

**February 21-24 • Florida Keys
April 25-28 • Dallas area, TX**

Nationwide Permits Complete
Look under: eSession courses - page 4

NEW POLICY WEBINAR

Changes to Nationwide Permits 2017

Webinar - 3 hours - \$125

The existing NWP's expire March 18, 2017 and the Corps intends to reissue the NWP's by that date. This online webinar is for those familiar with the NWP's. It will cover changes and clarifications to NWP's, general conditions, definitions, the PCN requirements, and general requirements. Anyone unfamiliar with the NWP's will be better served taking our full, online NWP or Policy courses. Participants will be able to view lecture slides, listen to live narrative, and ask questions. Each session will be identical, providing opportunity across time zones to select a session that best fits your schedule. All times are Eastern Daylight Savings Time. Lecture notes can be downloaded by participants in advance of the sessions. A copy of *Nationwide Permits Complete 2017 Edition* provided. Registration is limited; participation is limited to one person per registration. Instructors: Pierce and Collinson.

**March 14 • 0900-1200 hrs EDST
March 15 • 1400-1700 hrs EDST
March 16 • 1600-1900 hrs EDST**

PUBLICATIONS

POCKET GUIDE to HYDRIC SOIL FIELD INDICATORS - 2013 Edition

Based upon the 2010 field indicators and changes made through April 2013, from the National Technical Committee on Hydric Soils. The Pocket Guide-with Updates includes updated dichotomous soil indicator keys correlated to the Corps of Engineers Regional Supplements for Wetland Delineation to speed the process of finding the correct field indicator. All in a 6 3/4 x 4 inch field-size book with plastic laminated cover. **\$50**

NATIONWIDE PERMITS COMPLETE 2017 EDITION

by **Robert J. Pierce, David E. Dearing, Sam Collinson**

This is the 5th revision of NWP's Complete. Formatted similar to previous editions, it remains THE single, organized source for all documents required to move effectively through the nationwide permit process into 2022. **2017 Edition available March 2017.**

Organized for quick and ready reference, the entire texts of the 2017 NWP's, General Conditions, and the Regulations at 33 CFR 330 are presented in sequence and followed, in italics, by the pertinent and substantive parts of the 2017 and past preambles associated with each.

\$60

FEDERAL WETLAND REGULATION REFERENCE MANUAL & UPDATES 1990-2016

Regulations and updates through 2016 are electronically formatted in a searchable pdf on a USB Drive. Includes complete Table of Contents. **\$245**

WETLAND MITIGATION:

Planning Hydrology, Vegetation, and Soils for Wetland Construction

by **Gary J. Pierce** with contributing editors
Mallory N. Gilbert and Robert J. Pierce

The A to Z of construction and restoration, this book focuses on the importance of water to wetland construction with four entire chapters on water, all keyed to the hydrograph, an essential tool for getting the water right. Other chapters detail the importance of setting goals for construction planning, plant selection, handling and planting, and managing substrate and subgrade. Purchase of the book enables access to a secure link with pre-formulated Excel Spreadsheets and other information.

\$100

INTERNET REFERENCES for WETLAND MITIGATION

Selected and Prepared by Gary Pierce

This CD has over 600 MB of public domain downloaded references valuable for wetland mitigation. It includes thousands of pages and dozens of publications: the Corps' 700+ page manual on wetland construction with an appendix of sample contract specifications, a 1999 list of hundreds of wetland plant vendors, the federal government's guide to forested wetland restoration, hundreds of pages on vegetating wetlands by the NRCS' plant material centers, and lots more. **\$34**

**Publication prices include shipping and handling.
Quantity discounts are available.
More titles available at www.wetlandtraining.com
or give us a call!**



Wetland Training Institute, Inc.
 P.O. Box 31
 Glenwood, New Mexico 88039

Course Schedule - 2017

Toll Free 1-877-792-6482 or 575-539-2493

getinfo@wetlandtraining.com

2017 COURSE SCHEDULE

WETLAND DELINEATION

- **Basic Wetland Delineation** •
 February 6-10 ~ San Diego, CA
 April 3-7 ~ Houston, TX
 April 24-28 ~ Sacramento area, CA
 May 8-12 ~ Great Bend, KS
 May 22-26 ~ Portage, WI
 June 12-16 ~ Mesquite, TX
 August 7-11 ~ Rigby, ID
 August 21-25 ~ Arlington, WASH
 September 11-15 ~ Covington, LA
 September 25-29 ~ Portage, WI
- **Wetland Delineation with Emphasis on Soils and Hydrology** •
 June 5-10 ~ Poolesville, MD
- **Problematic Delineation Seminar** •
 July 12-14 ~ Portage, WI
- **Wetland Delineation Refresher** •
 See schedule for BWD eSession with Field Practicum

POLICY

- **Federal Wetland/Waters Regulatory Policy** •
 February 21-24 ~ Florida Keys
 April 25-28 ~ Dallas area, TX

CHANGES to NWP 2017 - WEBINAR

- March 14 ~ 0900-1200 hrs EDST
- March 15 ~ 1400-1700 hrs EDST
- March 16 ~ 1600-1900 hrs EDST

eSESSION

- **BWD eSession with Field Practicum** •
 February 13-14 ~ San Diego, CA
 March 30-31 ~ Houston, TX
 May 1-2 ~ Sacramento area, CA
 May 18-19 ~ Portage, WI
 May 22-23 ~ Omaha/Lincoln, NE
 June 21-22 ~ Williamsport, PA
 June 26-27 ~ Anchorage, AK
 July 12-13 ~ Laramie, WY
 August 28-29 ~ Arlington, WASH
 September 7-8 ~ Whitefish, MT
 September 18-19 ~ Covington, LA
 September 21-22 ~ Poolesville, MD
 October 18-19 ~ Richmond, VA
 November 2-3 ~ Charleston, SC
- **Principles of Wetland Ecology** •
 January 23, 2017 ~ eSession Opens
- **Federal Wetland/Waters Regulatory Policy** •
 December 12, 2016 ~ eSession Opens
- **Nationwide Permits Complete** •
 February 28, 2017 ~ eSession Opens
- **Advanced Hydrology for Jurisdictional Determinations** •
 December 12, 2016 ~ eSession Opens
- **Plants of the Wetland Boundary eSessions** •
 December 12, 2016 ~ eSessions Open

WETLAND CONSTRUCTION and RESTORATION

- **Planning Hydrology, Vegetation, and Soils for Constructed Wetlands** •
 June 20-23 ~ State College, PA
- **Riparian Habitat Restoration** •
 September 14-15 ~ San Diego, CA

ADVANCED TECHNICAL

- **Advanced Hydric Soils** •
 February 15-16 ~ San Diego, CA
 April 10-11 ~ Sacramento area, CA
 May 22-23 ~ State College, PA
 June 28-29 ~ Anchorage, AK
 July 17-18 ~ Denver, CO
 August 1-2 ~ Portage WI

PLANT IDENTIFICATION

- **Identifying Grasses, Sedges, and Rushes** •
 May 8-11 ~ Spartanburg, SC
- **Graminoid (Grasses, Sedges, Rushes) ID for Wetlands and Wetland Delineators** •
 May 23-26 ~ Hays, KS
- **Plant Identification for Coastal Southern California** •
 June 7-9 ~ San Diego, CA
- **Plant Identification for Wetland Delineators** •
 July 25-28 ~ Portage, WI
- **Plant Identification for Wetlands and Wetland Delineators** •
 August 15-18 ~ Hays, KS