

# Army Corps of Engineers Wetland Delineation Classroom & Field Training by Richard Chinn, PWS, CET, of Richard Chinn Environmental Training, Inc.

This 4-day, 38 hour course covers wetland delineation procedures used and approved by the U.S. Army Corps of Engineers (including the **Arid West Regional Supplement**) and other regulatory agencies through a combination of inside lecture / class discussion and an equal amount of field demonstrations and repetitions. This course provides approximately 2.6 credit hours of specific wetland coursework toward the Society of Wetland Scientists' **Professional Wetland Scientist** certification, satisfies the training requirements of many agencies, and is a standard credential of wetland delineation competence. Please see our web page, <http://www.richardchinn.com>, for additional information.

## Topics

- Introduction to the 1987 Manual
- Section 404 Authorization
- Definition of Waters of the US incorporating the recent **SWANCC** and **Rapanos** decisions
- Introduction to the Cowardin System
- Introduction to Wetland Hydrology
- Growing Season determination
- Primary Field Wetland Hydrology Indicators
- Secondary Field Wetland Hydrology Indicators
- Introduction to Hydrophytic Vegetation
- Vegetation Adaptations to Hydrology
- Vegetation Strata
- National Wetlands Inventory Classifications
- Morphological, Physiological and Reproductive Plant Adaptations to Water
- Selection of Dominant Species (50/20 Test)
- Basic Vegetation Test
- Introduction to Hydric Soils
- Interpreting a Soil Survey
- Soil Taxonomy
- Soil Hydrogeochemistry (Reduction / Oxidation) Processes
- Soil Colors
- Redoximorphic Features
- Hydric soil indicators
- Off-Site Application
- Routine Small Area Application
- Routine Large Area Application
- Comprehensive Application
- Atypical Situations
- Problem Areas
- Routine Small Area Field Delineation
- Delineating wetlands using the regional supplement and the regional supplement data form
- How to complete the ACOE Approved Jurisdictional Determination Form (if time permits)
- Optional practice examination

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### Wetland Delineation Training Registration Form - San Diego, California, November 12 - 15, 2012 - \$1025

Name: \_\_\_\_\_ ● Date: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_ ● Work Phone (\_\_\_\_\_) \_\_\_\_\_

Email Address: \_\_\_\_\_ ● Fax (\_\_\_\_\_) \_\_\_\_\_

Select Payment Form (✓):            

Credit Card No.: \_\_\_\_\_ ● Name on card: \_\_\_\_\_

Signature of Cardholder: \_\_\_\_\_ ● Exp. Date: \_\_\_\_\_

I wish to receive my confirmation via (✓):  Email (our preference)  Telephone  Fax  Postal Mail

Course Location: Please see our web page for specific training site information.

Refund Policy: Full refund if cancelled in writing at least 10 business days before the beginning of course. 50% refund if cancelled in writing at least 5 business days before the beginning of course. A full credit will be issued if cancelled at least 1 day before the beginning of course. There is no refund or transferability on the hardship. Although very rare, Richard Chinn Environmental Training, Inc. reserves the right to cancel a class and refund all fees.

Richard Chinn Environmental Training, Inc., 804 Cottage Hill Way, Brandon, FL 33511-8098  
Phone: 1.800.427.0307 ● Fax: 1.888.457.6331 ● Email: [info@richardchinn.com](mailto:info@richardchinn.com) ● Web: [www.richardchinn.com](http://www.richardchinn.com)

## The Course Instructor

Richard Chinn, a Certified Environmental Trainer, Certified Wetland Delineator and Professional Wetland Scientist holds BS and MS degrees in Zoology. Mr. Chinn has 20+ years experience in wetlands and environmental resource management in both the public and private sectors and 20+ years training and teaching experience as a wetland regulator, consultant and community college and university Instructor.

Mr. Chinn has trained 6500+ wetland scientists in ACOE Wetland Delineation protocol nationwide.

Mr. Chinn was Certified during the Army Corps of Engineers' *Wetland Delineation Certification Program Demonstration Phase*.

Mr. Chinn is a former member of the Boards of the Society of Wetland Scientists and National Environmental Safety and Health Training Assn.

## The Course

### Unsolicited quotes from previous participants

*I thoroughly enjoyed your class and took a lot of home with me. Your teaching style is unprecedented-you have a calling to teach!*

*You had great energy, allowed for questions to be discussed, maintained a good sense of humor, and were an engaging speaker. I will recommend your class to others in my company and field.*

Every participant will receive:

- Comprehensive workbook,
- Regional Supplement Manual,
- County list of hydric soils for that county,
- NWI list of wetland plants for that Region,
- Corps' Clarification memoranda,
- Certificate of completion suitable for framing,
- Sources of pertinent wetland information,
- 3.8 Continuing Education Units (CEUs),
- Password to the alumni page,
- Approximately 2.6 credit hour equivalents

## Richard Chinn Environmental Training, Inc. Additional Courses

### Wetland Permitting Training

This 2-day course covers the regulatory issues of wetland management, especially the "how-to"s of wetland impact permits.

### Regional Supplement Wetland Delineation Training

This 1-day course covers the new Army Corps of Engineers Regional Supplement Wetland Delineation method in effect at that location. This course is offered as a standalone course on the fourth day of our 4-day Wetland Delineation Training class.

### Florida Statewide Wetland Delineation Training

This 2 day course covers the wetland delineation method (62-340 FAC) used by the State of Florida, Water Management Districts and Counties and Cities of Florida. This is independent of the Corps method.

### On-Line HAZWOPER Annual Refresher

This course satisfies OSHA's requirements for annual refresher training for Hazardous Waste Operations & Emergency Response workers (29 CFR 1910.120).

### Train-the-Trainer for Hazardous Waste Operations and Emergency Response

This 40 hour course provides the training to satisfy OSHA's requirements to become a Hazardous Waste Operations & Emergency Response Trainer and prepares one for the Instructional Technology and Occupational Safety & Health tests to become a Certified Environmental Trainer.

Call us or visit our web page for our current, posted training class schedule.

***On-site training is available for groups as few as 10 persons.***

## Richard Chinn Environmental Training Wetland and Waters of the US Delineation & Field Training including the new Regional Supplements

**Learn** the Corps' wetland delineation methods, including the new **Regional Wetland Delineation Supplemental Methods**, to correctly delineate wetlands through identification of hydric soils, hydrology and hydrophytes in normal, disturbed, and problem areas,

**Interpret** the current definitions of Waters of the US following the SWANCC and Rapanos Supreme Court decisions,

**Satisfy** the training requirements of state Departments of Transportation, the Corps of Engineers and other government agencies that have mandated or recommended training requirements for their listed wetland contractors,

**Earn** approximately 2.6 credit hours toward **Professional Wetland Scientist** certification by the Society of Wetland Scientists and 3.8 Continuing Education Units that are required by many certifying and licensing bodies

**½ Classroom & ½ Field**

**San Diego, California**

**November 12 - 15, 2012**

**\$1025**

**Richard Chinn Environmental Training, Inc.**

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Please pass this brochure onto your colleagues.

