YOU CANNOT DELINEATE A WETLAND WITHOUT EXPERIENCE IDENTIFYING WETLAND PLANTS.

When you enroll in the series, you should complete Vegetation Identification, and Methodology for Delineating Wetlands.

VEGETATION IDENTIFICATION - SOUTH
September 10 and 11, 2015
Course Code: EH0201CA16
$915 before 8/27/15; $925 after; $895 multiple
Wetland plants, also known as hydrophytes or hydrophytic vegetation, have adaptations that enable them to grow and reproduce with their roots in water or saturated soil for at least part of the year. In contrast, plants that cannot survive in saturated conditions are commonly referred to as upland plants.

With consultants Joseph Arsenaught and Theodore Gorden you will learn plant identification principles and study diagnostic characteristics of species frequently encountered by wetland delineators in the Southern New Jersey region.

By the end of the course, you will be able to quickly and confidently identify the wetland plant species that are important in determining if an area meets the hydrophytic vegetation criterion for wetland delineation.

Recommended Textbooks
- The Tree Identification Book (ISBN 0688050395) G. Symonds - $30

**NOTE:** The following textbook is “print on demand” and only available through our office until Monday, August 10, 2015.
- Plant Communities of NJ (ISBN 0813520711) B. Robichaud - $30

METHODOLOGY FOR DELINEATING WETLANDS
October 20, 21, 22 and 23, 2015
Course Code: EH0401CA16
$1,030 before 10/6/15; $1,050 after; $990 multiple
Learn the methods of the experts! This four-day course will introduce you to delineating wetlands using the Federal Interagency Wetland Delineation Manual, which is required for use in New Jersey. Techniques taught will also be applicable to individuals interested in using the 1987 Corps of Engineers Wetland Delineation Manual as well.

Recognize the key indicators of wetlands (hydrophytic vegetation, hydric soils and wetland hydrology) while expert instructors Ralph Tiner and Mallory Gilbert show you how to use them in following proper delineation methods. Immediately apply criteria learned in the classroom by performing wetland determinations during team field exercises.

VEGETATION: Analyze plant communities and identify dominant plant and indicators of hydrophytic vegetation

SOILS: Identify sandy and non-sandy hydric soils based on the National List of hydric soil field indicators

HYDROLOGY: Recognize direct and indirect indicators

Recommended Textbook

If you are not familiar with wetlands, hydrology, or vegetation, we strongly recommend that you complete Introduction to Wetland Identification prior to Methodology for Delineating Wetlands.
**ArcGIS: INTRODUCTION**

**NEW IDENTIFICATION OF TIDAL WETLAND PLANTS**

October 8 and 9, 2015

Course Code: EH0102CA16

$325 before 10/7/15; $325 after

Mother you work in salt marshes or freshwater wetlands on the Coastal Plain, you will find this course invaluable. It begins with a brief introduction to wetland plant characteristics and the easy-to-use keys in the instructor’s book. “Field Guide to Tidal Wetlands of the Northeastern U.S. and Neighboring Canada.” The book covers over 500 plants, salt marsh and freshwater wetlands across the region.

The rest of the course, led by wetland expert, Ralph Tiner is field-oriented with hands-on learning to recognize the characteristic plants of tidal wetlands in the Mid-Atlantic region.

**Required Textbook:** Only available through our office.

- Field Guide to Tidal Wetlands of the Northeastern U.S., R. Tiner - $30

**LAKE MANAGEMENT**

November 9 and 10, 2015

$395 per person; $275 one-day only

Whether you are a lake manager or resident, an ecologist or an engineer, to ensure your lake and watershed management efforts to be successful, you need a technically sound foundation. This course will give you the training you need to properly investigate and diagnose lake quality problems as well as the tools to develop and implement cost-effective, restoration measures.

**Required Textbooks**


**ADVANCED STORMWATER MANAGEMENT TECHNIQUES**

October 26, 2015

$295 before 10/13/15; $395 after

Although promoted by the NJDEP, advanced stormwater management techniques still tend to be incorrectly constructed, utilized improperly or inadequately maintained. This course will focus on the design, construction and maintenance of bioretention, gravel wetland, constructed wetland and infiltration type stormwater management BMPs.

**Payment Policy:** All students must have prearranged for payment to be admitted to the class.

**Cancellation Policy:** Registrants may withdraw in writing (by letter or email) up to (3) three full working days before a course begins and receive a full refund, less any materials fee or as otherwise noted on the course webpage. If the Office of Continuing Professional Education is not notified in writing at least three working days prior to the start of class, registrants may be responsible for the full fee.

**Substitutions are permitted.**

**Accommodations for Individuals with Disabilities:** If you require special assistance, please notify our office when you register or no less than one week before the course starts. Every effort will be made to accommodate reasonable requests.

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**ATTENTION WETLAND SCIENTISTS**

The Society of Wetland Scientists (SWS) Professional Certification Program has pre-approved all WELTANDS courses in this brochure (EXCEPT Tidal Wetland Plants) for content and instruction to receive credits toward SWSPCP Professional Certification/SWSPCP Professional Certification Renewal.

**ALL COURSES IN THIS BROCHURE HAVE BEEN SUBMITTED FOR ADDITIONAL RECERTIFICATION CREDITS.** Please visit www.sws.org/credits or call Bianca Scandura at (848) 392-7316 for specific credit information.