



AMERICAN COUNCIL OF ENGINEERING COMPANIES  
*of Vermont*

## **ACEC/VT REFRESHER PDH COURSE FIELD DESCRIPTION OF SOIL PROPERTIES AND ESTIMATING SEASONAL WATER TABLE**

**TO REGISTER- go to this link:**

<https://www.eventbrite.com/e/acec-of-vermont-soil-seminar-a-8-pdh-refresher-course-field-description-of-soil-properties-and-tickets-28209013920>

### **A REFRESHER COURSE**

### **FIELD DESCRIPTION OF SOIL PROPERTIES AND ESTIMATING SEASONAL WATER TABLE**

**SPONSORED BY: ACEC OF VERMONT**

#### **Webinar:**

**WHEN:** Wednesday, October 26 (10:00AM – 12:00PM)

#### **ACEC/VT Soils Course:**

**WHEN:** Thursday, October 27  
(CLASS MEETS FROM 8:45 AM – 4 PM)

**WHERE:** Lincoln Applied Geology, Inc., 163 Revell Drive, Lincoln, Vermont 05443.

#### **DEADLINE FOR REGISTRATION IS FRIDAY, October 21, 2016**

- Note that the VT PE Board has approved this course for 8.0 Professional Development Hours (PDHs) and as the college level soils course to add the ANR soils certification to the PE.
- Also note that ANR has approved this course for 8 credit hours including 6 soil related credits for Licensed Designers

**COST:** (Registration fee includes course material, lunch and coffee break):

**ACEC Members:** \$250.00 per person    **Non Members:** \$300.00 per person.

**REGISTRATION INFORMATION:** **Space is limited so register early. To receive 8 PDHs and receive a certificate, you must be present during the entire course. Certification will be mailed to you by ACEC/VT after the completion of the course. No refunds to attendees canceling less than 5 days prior to seminar. Substitutes are acceptable; please notify ACEC/VT prior to substitution.**

**PRESENTERS:**

Wendy Sue Harper, Soil Scientist, WSH Consulting

Steve Revell, CPG from Lincoln Applied Geology

**THE COURSE:**

**Field Description of Soils:**

· A course of study in the description and field identification of soils with varying wetness conditions using standards of the National Cooperative Soil Survey. Emphasis on important soil properties in the field related to soil drainage characteristics and on-site waste disposal. Upon completion, the student is expected to be knowledgeable in describing soils and estimating seasonal high water table levels.

**TEXT & PRIMARY REFERENCES (PROVIDED WITH THIS COURSE):**

- *Redoximorphic Features for Identifying Aquic Conditions.* M. J. Vespraskas, NC State University. Tech.Bulletin 301. Dec. 1992.
- *Field Book for Describing and Sampling Soils.* Version 2. USDA-NRCS. Sept. 2002.

**WEBINAR- Wednesday, October 26 (10:00AM – 12:00PM):**

Origin and Nature of Soil:

Soil Color and its significance	Soil Structure
Factors of Soil Formation features	Redoximorphic
Soil Texture	Types of Soil Properties
Soil Series Information	Slope
Soil horizons and boundaries	Soil Consistence
Restrictive Layers	Drainage classes
Permeability	

**Soil Surveys:**

Soil maps- how to use Web Soil Survey (<http://soils.usda.gov/survey/>) to get soils info Scale, accuracy, and map detail.

Exercise using Soil Properties and Septic Rating info in the Orange County Soil Survey.

**FIELD DAY- Thursday, October 27 (8:45 AM – 4 PM):**

Describing Soils of Various Parent Material and Drainage Classes– Local sites

**FIELD EXAM AND COURSE REVIEW:**

Student is to 1.) Prepare a complete field description of selected pedons, and 2.) Describe role of parent material and relief on soil drainage characteristics for selected test pits. This is an open book exam.