

Course Summary

This is the third part of a series of courses geared toward the surveying technician. The purpose of these courses is to give the surveying technician knowledge that he or she can use both in the field and office as well as a foundation for the Fundamentals of Land Surveying (FS) exam, and the Certified Survey Technician Level II and III exams (CST II & CST III).

As a land surveyor, one of the important aspects of our job is the ability to perform accurate alignment computations to establish roadway and railroad centerlines on the construction site, layout permanent alignment offset stakes, and compute elevations along the alignment for tangent and vertical curve layouts..

The topics of horizontal and vertical curves, and their computation is an important part of the FS and CST examinations. The survey technicians must be able to read and understand horizontal and vertical alignments, as well as perform computations using a hand calculator,

Time will be allocated in the afternoon to perform calculations based on actual highway construction plans and railroad valuation plans. Attendees who score at least a 70 on this exercise will receive a certificate of achievement.

Learning Objectives

Upon successful completion of this course, participants will be able to:

- Knowledgeably recognize and compute any element of horizontal and vertical curves needed to accomplish their surveying work.
- Perform the necessary computations for an integrated roadway alignment with multiple horizontal and vertical curves.
- Perform necessary computations for any part of a roadway template, including super elevations .

Workshop Requirements

In order to realize the potential of the information provided in this workshop, registrants must be able to plan for the workshop in advance. The following requirements of this workshop must be met:

- Bring a non-programmable calculator that you are familiar with. This should be the type that are permitted into the FS exam.
- Complete an alignment computation following the course in order to receive a certificate for the class.

Costs, Refunds, Cancellation Policies

Registration fee for the workshop: \$150 for CALS members, \$200 non-members, \$25 for students.

Members of other state surveying societies are welcome. Full refunds for cancellations made 48 hours prior to the workshop.

Directions & Parking

The CALS office building is located at 78 Beaver Road in Wethersfield, CT. Beaver Road is a one-way street off Silas Deane Highway, (State Route 99), 0.22 and 0.37 miles north of State Route 175.

Parking is in the back. When facing the back of the building, enter through the outside door on the right side. Suite 1F is immediately on the right.

Connecticut Association
of Land Surveyors
Presents:



Roadway Alignments for Land Surveyors



John Doody PS/PE
Rachel Dearborn LS
CCSU CE Program

Wednesday, January 15, 2020
8:30am - 4:30pm

CALS Office Building
78 Beaver Road
Wethersfield, CT 06109

Suite 1F CT Farm Bureau
Conference Room

Technician Workshop
CT, 6.75 PDH

Workshop Instructors

John J. Doody, PS & PE is a professional surveyor and civil engineer licensed to practice in Connecticut (PELS 15560). Mr. Doody graduated with a B.S.C.E (1983) and an M.S.Env.Eng (1993) from the University of New Haven, Connecticut. John has taught as an adjunct faculty member of the Civil Engineering program at Central Connecticut State University since 1989, teaching basic and advanced surveying, and presently teaching "Introduction to GPS" and "Introduction to AutoCAD Civil 3D". He was the developer and instructor for "Boundary Law", an on-line course at Charter Oak State College, part of a CT Land Surveying Certificate program, now discontinued.

Rachel Dearborn, LS, is a professional land surveyor who taught the Surveying Lecture and Lab Course at the University of Connecticut from 2002-2007 and currently teaches the Surveying Lecture and Lab Course at Central Connecticut State University. Rachel graduated from CCSU with a B.S.E.T. in 1999. She became a professional land surveyor in 2008 and currently owns and manages a small surveying company, Landmark Surveys LLC, in Ellington, Connecticut.

Schedule

- 8:00 - 8:30am Registration, Coffee
- 8:30 - 10:00 am
 - Introduction
 - Horizontal Curve Elements
- 10:00 am - 10:15 Coffee Break
- 10:15 -12:00 Noon
 - Curve Layout Computations
 - Curve Layout Table Design
 - Working with Curve Offsets
- Noon - 12:45pm Lunch provided
- 12:45 -1:45 pm
 - Vertical Curve Elements
 - Vertical Curve Computations
- 1:45 - 2:15 pm
 - Roadway Template Elements
 - Roadway Template Computations
- 2:15 - 2:30 pm
 - Afternoon Break
- 2:30 - 4:30 pm:
 - Complete computation exercises and turn in for certificate of achievement.
 - Complete Questionnaire.

For more information:
jjdoody@snet.net 203-933-3850

REGISTRATION: ALIGNMENTS FOR SURVEYORS January 15, 2020

Name: _____ Company: _____
Address: _____ Phone: _____
City: _____ State: _____ Zip: _____
Email: _____
Credit Card Numb: _____ Expiration date: _____
Signature: _____

Registration Fee \$ \$150 for CALS members, \$200 non-members, \$25 students*.

Includes continental breakfast lunch, parking & handouts.

*Registration fee for all members of New England & NY Professional Surveying Societies

Make Check Payable to : CALS and send to CALS, 78 Beaver Road, Wethersfield, CT 06109
Phone (860) 563-1990 Fax (860) 529-9700 email kathy@ctsurveyors.org

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