

## PRESTRESSED/POST-TENSIONED CONCRETE TRAINING SYLLABUS

**Class Date:** Wednesday's, 05/01/2019 – 06/19/2019

**Class Time:** 6:00 – 9:00 PM

**Location & Address:** Renton Technical College, 3000 NE 4th St., Renton, WA 98056, Building H, Room H103

### COURSE DESCRIPTION

This course is designed for working special inspectors with a sound, general knowledge of concrete construction who wish to gain knowledge of pre-stressed concrete construction. The goals of this course are to provide practical knowledge of post-tensioned/pre-stressed concrete terminology, procedures & construction and to assist inspectors in preparing for and passing the ICC Pre-stressed Concrete Special Inspector exam. Topics will include the following:

1. Overview of and principles behind pre-stressed concrete
2. Understanding design and shop drawings
3. Pre-construction considerations and meetings, Seattle DPD forms
4. The inspection processes
5. Inspection and testing during post-tensioned concrete placement
6. The tensioning operation
7. The literature, specifications, and passing the test
8. Test questions and summaries of listed reference materials

### ABOUT THE INSTRUCTOR

Aaron VanderPol is a WABO / OBOA Special Inspector with 13 years of experience. He is certified in Reinforced Concrete, Pre-Stressed Concrete, Shotcrete, Structural Masonry, Structural Steel and Bolting, Structural Welding, Spray Applied Fire Resistive Materials, Proprietary Anchors; ASNT: Level II Ultrasonic Testing; NICET: Level III Asphalt, Level III Concrete and OSHA 10.

### MATERIALS REQUIRED

- Field Procedures Manual for Single Strand Tendons, 3rd edition
- Specification for Unbonded Single Strand Tendons (PTI M10.2-17)
- Manual for Quality Control, For Plants and Production of Structural Precast Concrete Products
- Recommendations for Prestressed Rock and Soil Anchors, 4<sup>th</sup> edition

### MATERIALS RECOMMENDED

- 2015 International Building Code
  - ACI 318-14 Building Code Requirements for Structural Concrete and Commentary
  - Concrete Manual: Based on the 2015 IBC and ACI 318-14
  - ASTM Standard A416 / A416 M-06
  - ASTM Standard A421 / A421-02
    - Listed ASTM Standards may be found in ASTM Standards: As Referenced in the 2009 IBC, ACI Publication SP-71, or at [www.astm.org](http://www.astm.org). ASTM Standards are those referenced in the 2009 IBC.

### COST

Determined by enrollment. Invoice will be emailed no later than one week after course has ended.

### REGISTRATION

Please fill out the attached registration application and email to Thanh Kieu at [thanh@nwcel.org](mailto:thanh@nwcel.org)

## PRESTRESSED/POST-TENSIONED CONCRETE TRAINING REGISTRATION FORM

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### CONTACT INFORMATION

Name: \_\_\_\_\_

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

Phone Number: \_\_\_\_\_

Email: \_\_\_\_\_

### BILLING CONTACT INFORMATION

CHECK IF SAME AS ABOVE

Name: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

### STUDENT REGISTRATION

First: \_\_\_\_\_

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