Structures Level I

Course Objectives:

The Structures Level I is a two day course designed to give participants the skills and knowledge required to become a competent bridge and culvert construction inspector. Topics include – Plan Interpretation, Geotechnical Investigation, Bearing Piles, Structural Excavation, Concrete Placement and Testing, Structural Steel, Steel Reinforcement, Falsework/Formwork, Bridge Decks, 3-Sided Structures, Steel Reinforcement, Metal Arch Structures, and Specification of Bridge and Culvert Construction.

Level I qualification will be required to be maintained for Consultant inspectors on a KYTC project involving Structures.

Prerequisites: Concrete ACI Level I
Grade and Drain Level 1

Basic plan reading skills will also be required. Online courses available at https://www.nhi.fhwa.dot.gov/default.aspx that provide a good basic understanding of structure plans. See - TCCC Plan Reading: Bridge Plans - WEB-BASED, and TCCC Plan Reading: Culvert Plans - WEB-BASED

Who should attend:
State, Contractor, and Consultant personnel who are or will be responsible for performing and/or inspecting work within the topics described above on KYTC projects.

Course Dates and Locations:

<table>
<thead>
<tr>
<th>Date</th>
<th>Class Site</th>
<th>Capacity</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 14-15, 2019</td>
<td>The Jeffersonian</td>
<td>50</td>
<td>Jeffersontown, KY</td>
</tr>
<tr>
<td>February 20-21, 2019</td>
<td>District Seven Office</td>
<td>35</td>
<td>Lexington, KY</td>
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<tr>
<td>April 2-3, 2019</td>
<td>Jackson Energy</td>
<td>75</td>
<td>London, KY</td>
</tr>
<tr>
<td>May 29-30, 2019</td>
<td>Morehead Conf. Center</td>
<td>50</td>
<td>Morehead, KY</td>
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<tr>
<td>June 18-19, 2019</td>
<td>Pritchard Community Center</td>
<td>50</td>
<td>Elizabethtown, KY</td>
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What is the cost and how to register:
- There is no registration fee.
- Registration form is attached and should be submitted at least 2 weeks prior to the course. Course space is limited, so early registration submittal is encouraged to ensure enrollment in your preferred course.
- Registrants will be mailed a confirmation including directions to the training center after registration form is received.
- Bring calculator, no cell phones allowed during the test

What is the cancellation policy:
- Cancellation must be received 72 hours prior to the start of the course.

For Questions, Please Contact:
Ryan Gossom, P.E. Division of Construction
502-564-4780 or Email: mailto:ryan.gossom@ky.gov

Send all registration forms to: Janice Flygstad,
Division of Construction 200 Mero StreetFrankfort, KY 40622 janice.flygstad@ky.gov
Highway Structural Inspection – Level One
2018 Qualification Course Outline
(Class requirement: Students to bring their Spec Book, Pencil, Paper, and Calculator)
(ALL TIMES ARE LOCAL)

Day 1

8:30  Introduction and Overview of Course – PAGE #1
8:40  Basic Bridge/Culvert Elements and Plan Interpretation – PAGE #3
9:00  Staking, Layout, etc. – PAGE #16
9:15  Geotechnical and Structure Excavation – PAGE #22
10:00 Break
10:15 Bearing Piles – PAGE #46
10:45 Concrete – PAGE #63
11:30 Prestress Concrete – PAGE #77
12:00 Lunch
1:00  Structural Steel – PAGE #100
1:45  Reinforcing Steel – PAGE #121
2:15 Break
2:30 Joints – PAGE #143
3:00  Forms and Falsework – PAGE #156
3:30 Adjourn for the Day
Highway Structural Inspection – Level One

2018 Qualification Course Outline - Continued

Day 2

8:30 Bridge Decks – PAGE #172
9:00 Deck Video
10:00 Break
10:15 Miscellaneous Items – PAGE #190
10:45 3-Sided Precast Structures – PAGE #208
11:15 Metal Arch and other Misc. Structures – PAGE #225
11:45 Lunch
12:45 Bridge Rehabilitation – PAGE #249
1:30 Post Construction – PAGE #263
2:00 Break
2:15 Examination
Highway Structural Inspector-Level I

Location___________________________ Date__________________________

Is this a RE-certification (SELECT ONE) – YES / NO

REGISTRATION FORM

INSPECTOR ID#: _________________ (3 OR 4 DIGIT CODE FROM CURRENT QUALIFICATION CARD ~ N/A IF YOU HAVE NOT BEEN PREVIOUSLY QUALIFIED)

NAME: (Last, First, M.I.) ______________________________________

DATE OF BIRTH: (mm/dd/yy) _________________________________

HOME ADDRESS: (Apt #) _________________________________

*CHANGE ( ) (Street) ______________________________________

(City) _________________________________

(State, Zip) _________________________________

Phone: (____) _______________ Email: ____________________

*CHECK IF CHANGED FROM HOME ADDRESS ON RECORD.

COMPANY ADDRESS: (Company Name) _______________________________

*CHANGE ( ) (State Employees) District _______________Crew___________

(Address) _________________________________________________

___________________________________________________________

___________________________________________________________

Phone: (____) _______________ Email: ____________________

*CHECK IF CHANGED FROM COMPANY ADDRESS ON RECORD.