Day 1

Module 1 (8:00 AM – 10:00 AM)
- Selection/Authorization of Public Works Projects
- Design
- Acceptance and Maintenance
  - Description of Construction Team
  - Inspector and Inspection
  - Inspection policy
  - Inspection practice
  - Goals of testing and Inspection Plan
- Construction Documents
  - Contracts
  - Plans
  - Specifications
  - Addenda
  - Change Orders
  - Supplemental Project Information
- Interactive Engagement Exercise

Module 2 (10:00 AM – 12:00 PM)
- Resident Inspector (or Resident Engineer) & Project Delivery
  - Inspector’s Administrative Duties
  - Inspector Authority
  - Contract Compliance Requirements
  - Measurement & Payment
  - Project Closeout

Lunch (12:00 – 1:00 PM)
Lunch is not provided as part of the seminar (you are on your own)

Module 3 (1:00 PM – 3:00 PM)
- Legal Constraints for Public Works Projects
  - California Contract Code
  - NEPA & CEQA
  - Storm water (NPDES)
  - Safety (OSHA & Cal/OSHA)
  - Hazardous Materials
  - Labor Code/Prevailing Wage
  - Other
- Interactive Engagement Exercise
Module 4 (3:00 PM – 5:00 PM)
- Construction and Inspection for the Inspector
- Earthworks
  - Soils
  - Geotechnical aspects of grading
  - Types
  - Normal order of construction
  - Inspection

Day 2

Module 5 (8:00 AM – 10:00 AM)
- Pipelines & Piles and Piling
- Pipelines – Sewer, Storm Drain, Water
  - Materials
  - Installation
  - Trench Restoration
  - Testing
  - Special Construction Methods
- Piles and Piling
  - Why used
  - Types
    - End Bearing
    - Friction
    - Combination
  - Materials
  - Inspection
- Interactive Engagement Exercise

Module 6 presentation (10:00 AM – 12:00 PM)
- Portland Cement Concrete (PCC)
  - Materials
  - Plain versus reinforced
  - Pre-stressed versus Post-tensioned
  - Construction
    - Make concrete
    - Transport & Placement
    - Curing
    - Problems
- Waterstops
- Interactive Engagement Exercise

Lunch (12:00 – 1:00 PM)
Lunch is not provided as part of the seminar (you are on your own)
Module 7 (1:00 PM – 3:00 PM)
- Paving and Structural Connections
- Pavements
  - Pavement Design
  - Pavement Construction
  - Inspection
  - Pavement Maintenance
- Structural Connections
  - Bolting
  - Welding
  - Other
- Interactive Engagement Exercise

Module 8 (3:00 PM – 5:00 PM)
- Protective Coatings & Project Closeout
- Painting and Protective Coatings
  - Principles of Corrosion
  - Paint Prep
  - Surface Conditions
  - Painting and Coating
  - Inspection
  - Failures
  - Restricted Materials
- Project Closeout
  - Preparation for Closeout
  - Beneficial Occupancy/Partial Utilization
  - Liquidated Damages
  - Early Completion
  - Punch List
  - Contractor Obligations
  - Engineer Obligations
  - Completion versus Substantial Completion
  - Performance
  - Liens and Stop Notices
- Interactive Engagement Exercise

5:00 PM Adjourn