



Fundamentals of Inspection Practice (PD-01) Course Agenda

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

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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)

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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