

# PUB 155: PUBLIC WORKS CONSTRUCTION INSPECTION

## Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2025
Credits:	3
Total Contact Hours:	54
Lecture Hours :	54
Lab Hours:	0
Hours Arranged:	0
Outside of Class Hours:	108
Total Student Learning Hours:	162
Strongly Recommended:	ENGL C1000.
Transferable to CSU:	No
Transferable to UC:	No
Grading Method:	Standard Letter, Pass/No Pass

## Catalog Course Description

This course provides a comprehensive overview of construction inspection and materials testing processes relevant to general engineering construction in the public works sector, including street surface and subsurface construction improvements; consideration will be given to examining the various types of inspections, code versus contracts, inspection records, duties, responsibilities, compliance and resolution; as well as interpersonal communication skills. Emphasis will be on exploring the various career opportunities in construction inspection. 54 lecture hours.

## Course Objectives

- Identify the types and public works disciplines of construction inspections
- Differentiate between Code and Contract quality requirements.
- Given specific contract documents assigned in-class, demonstrate appropriate interpretation of and clarity of intent of quality requirements.
- Demonstrate understanding of professional interpersonal relations.
- Demonstrate, through oral presentations, class participation and testing, thorough knowledge of the inspector's duties and responsibilities
- Given a specific scope of work, demonstrate proficiency in writing accurate, descriptive and complete inspection daily reports on actual report templates provide by instructor to meet inspection standards of practice
- Using excerpts from construction documents and drawings, demonstrate basic skills of estimating and tracking quantities materials, labor and equipment used to justify public works progress payments to contractors.
- Evaluate construction survey data sheets.
- Through class participation and assigned papers, discuss ethics in the construction inspection profession.
- Understand the inspector's role in ensuring compliance with Cal-OSHA Safety

## Major Course Content

1. Interpersonal Skills for Inspectors
2. Justification for Construction Inspections
3. Governing Documents for Inspection
4. Review of Precedence of Contract Documents
5. The Integrated Team Environment
6. Analysis of Quality Standards
7. Inspection Produced Documents
8. Inspection Applications
9. Public Works Contract Administration Inspections
10. Code-Mandated Special Inspections
11. Civil Improvements and Utilities
12. Substantial Completions and Final Inspections
13. Daily Inspection Reports
14. Compliance and Resolution Process
15. Ethics in Construction Inspection

## Suggested Reading Other Than Required Textbook

Public Works Inspectors Manual and the Standard Specifications for Public Works Construction (Greenbook).

## Examples of Required Writing Assignments

Written assignments may include a description of the responsibilities and roles of the contractor, engineer, and inspector in Public Works. Other topics include survey and staking, underground utilities, safety, tunneling, and jacking. Students may be asked to create inspection records, summary of daily duties, and job diary techniques.

## Examples of Outside Assignments

Students will be given written assignments. Students may be required to research current public works regulations, methods, products and materials. Other options may include site visits and professional interviews.

## Instruction Type(s)

Lecture, Online Education Lecture