

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

_____ Transfer Course X A.A. Degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: PWM 54 Public Works Inspection II

UNIT VALUE: 3

MINIMUM NUMBER OF SEMESTER HOURS: 48

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills

ENTRANCE REQUIREMENTS

PREREQUISITE: None.

COREQUISITE: None.

RECOMMENDED PREPARATION: None.

SCOPE OF COURSE:

Provides detailed instruction on more complex inspection tasks associated with public works construction. Topics include specific inspection methods for traffic signal installations, inspection techniques for street lighting system installations, inspection of street striping and markings, inspection of pipe rehabilitation systems, and inspection and construction methods of modified asphalts, pavements, and processes. Advanced material quantity estimating and technical report writing will be emphasized.

SPECIFIC COURSE OBJECTIVES:

The successful student will be able to:

1. Explain the various advanced public works inspection tasks and demonstrate an understanding of how to perform them when inspecting a job.
2. Discuss the specific responsibilities and range of authority of a public works inspector.
3. Demonstrate a level of competency of the requirements of a public works inspector in typical contract administration situations.
4. Explain the legal pitfalls associated with contract administration and how to avoid legal entanglements.
5. Demonstrate the ability to effectively present written documentation of a public works inspection project.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Technical Report Writing Basics
 - A. Sentence structure
 - B. Terminology
 - C. Daily inspection reports
 - D. Conversation documentation
 - E. Photo and video documentation

- II. Processing Progress Pay Requests
 - A. Line item quantity
 - B. Retention calculation

- III. Traffic Signal Installation
 - A. Terminology
 - B. Layout
 - C. Equipment
 - D. Installation
 - E. Testing

- IV. Traffic Striping
 - A. Striping – paint and thermoplastic
 - B. Markings –paint and thermoplastic
 - C. Raised pavement markers
 - D. Inspection practices

- V. Pipe Bursting
 - A. Methods
 - B. Materials
 - C. Inspection practices

- VI. Micro-tunneling
 - A. Methods
 - B. Materials
 - C. Inspection practices

- VII. Pipe Slip Lining
 - A. Methods
 - B. Materials
 - C. Inspection practices

- VIII. Slurry Seals
 - A. Various types
 - B. Application principals
 - C. Common problems
 - D. Inspection practices

- IX. Rubberize Emulsion – Aggregate Slurry
 - A. Slurry specifications
 - B. Application
 - C. Common problems
 - D. Inspection practices

REQUIRED READING:

“Greenbook” Standard Specifications for Public Works Construction”. 2000 Edition.

Birch Jr., Silas, Lynn D. Nicholson and Ron Price. Public Works Inspectors’ Manual. 6th edition.

SUGGESTED READING: None.

REQUIRED WRITING:

This assignment is designed to require the student to compose technical reports relating to the work performed on a small project that the student was recently involved with. Document the scope of work performed, materials, equipment and manpower involved in the work, and progress of the work on a project recently associated with. There is to be a report for each day you worked on the project and the project construction period is to be a minimum of five days. Material and equipment quantities are to be documented as well as man hours associated with the project.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

Class may include one or more field trips.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

DISTANCE LEARNING:

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply:

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

The course grading policy will be determined by individual instructors and may include the following:

- Exams
- Quizzes
- Research projects
- Writing assignments
- Classroom presentations
- Research papers
- Lab assignments
- Journal writing
- Classroom participation & discussion
- Homework

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes No Number of times course may be taken for credit: 1

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

CONTACT PERSON: Director, Occupational and Noncredit Programs, Ext. 2286

SIGNATURES ON FILE
