

SWPPP Awareness Syllabus

Time: 8 hours

Maximum Class Size: 20

Prerequisites: None

Course Description:

Caltrans has a comprehensive and coordinated statewide effort to prevent pollution in stormwater runoff from Caltrans properties and facilities, including construction sites. This course presents the six-hour Caltrans SWPPP course as well as the basics of reading blue prints and a grading plan. Students will exit the course with the knowledge of the basic federal and state regulations, components of a SWPPP and construction site Best Management Practices (BMPs).

Goals/Objectives/Student Learning Outcomes:

- Define or describe grading and two main goals.
- Read and interpret topographical maps and grading plans.
- Describe the two main drainage types (surface and subsurface) and the advantages and disadvantages of each.
- Describe the regulations requiring SWPPP.
- Discuss the meaning of Caltrans Construction site BMPs.
- Describe the implementation of Construction Site Best Management Practices
- Pass the Cal-Trans SWPPP test.
- Describe a sample Storm Water Pollution Prevention Plan and the items it must include.
- Install various types of erosion control materials.
- Interpret blueprints for Grading & Drainage.

Standards

- Federal regulations for controlling discharges of pollutants from municipal separate storm sewer systems and construction sites from the 1987 amendments to the Clean Water Act and the 1990 federal storm-water regulations issued by the U.S. Environmental Protection Agency.
- California Statewide NPDES Permit Requirements for Caltrans

SWPPP Awareness Syllabus

Classroom Rules and Procedures

- All classes begin at 6:30 am and end at 3:00 pm
- Upon entering classroom, all participants must sign in and be seated by 6:30 am
- Class will consist of a combination of lecture, video, demonstration, coached group exercises, individual exercises, and assessment.
- Students are required to report to class ready to work and maintain the provided PPE

Textbooks/Readings/Materials

- Cal Trans SWPPP Training Material
- Instrument, Grading and Drainage Handout packet
- Blueprints: Grading
- Blueprints: Drainage

Tools/Equipment/Other Materials

- Silt Fencing
- Straw Waddles
- Straw Bales
- Filter Bags
- Sandbags
- Plastic Sheeting
- Rip Rap
- Jute Netting
- Filter Fabric
- Drainpipe
- Inlet Boxes
- Hubs & Whiskers
- Grade Stakes
- Grade Ribbons
- Laser with Percentage Feature to 10%
- Field Level or Threadalite
- Flat Shovels
- Handout: Landscape Rakes

Personal Protective Equipment

- 12 pairs of gloves

SWPPP Awareness Syllabus

- 12 pairs of safety glasses
- 20 pairs of ear plugs
- 12 hard hats

Course Requirements

To receive credit for the course, participants must:

- Be present for full eight hours
- Participate in all classroom exercises
- Pass a written exam

Course Policies

- Participants must be on-time and ready to work.
- Participants must return from breaks on-time.
- Participants must participate in each exercise and assignment

Assessment and Grading

Participants will be assessed on the following:

- All written exams must be passed with a score of 80% or above.
- All hands-on exercises are graded on performance and participation. They are pass/fail and must be passed with a score of 80% or above.

Safety

Failure to maintain and use PPE may result in dismissal from the course.