

Erosion and Sediment Control for Highways Workshop
Sponsored by the Hawaii Department of Transportation Highways Division

The Hawaii Department of Transportation Highways Division presents six Erosion and Sediment Control for Highways Workshops.

The Erosion and Sediment Control for Highways Workshop is designed to provide design consultants with a thorough understanding of the principles of erosion and sediment control and how they uniquely apply to State highway projects. The workshop will emphasize the selection, design, implementation and evaluation of Best Management Practices. A course outline is attached.

Registration is free, but space is limited. Seating is on a first-come-first-serve basis and by reservation only. Sessions are as follows:

All sessions are from **8:00 a.m.-3:00 p.m.** (registration @ 7:30 a.m.)

<p>KONA Tuesday, February 13, 2007 King Kamehameha's Kona Beach Hotel 75-5660 Palani Road Kailua-Kona, HI 96740</p>	<p>HILO Wednesday, February 14, 2007 University of Hawaii Hilo, Hoooulu Terrace 200 W. Kawili Street Hilo, HI 96720-4081</p>	<p>LEEWARD OAHU Thursday, February 15, 2007 Pearl Country Club 98-535 Kaonohi Street Aiea, HI 96701</p>
<p>MAUI Wednesday, February 28, 2007 Maui Beach Hotel 170 Kaahumanu Avenue Kahului, HI 96732</p>	<p>KAUAI Thursday, March 1, 2007 Hilton Kauai Beach Resort 4331 Kauai Beach Drive Lihue, HI 96766</p>	<p>HONOLULU Friday, March 2, 2007 Honolulu Airport Hotel 3401 N. Nimitz Highway Honolulu, HI 96819</p>

To reserve your space, circle the session that you wish to attend and fill out the information below.
 Return to **Michelle Nelson via: Fax: (808) 486-7070**
Email: nelsonmi@pbworld.com

Forms must be received **10 days prior** to the workshop you circled above.
 For more information, please call Ms. Nelson at 566-2251 or e-mail at the address above.

Please reserve ___ space(s) for our company. *(Please print names of those who will be attending)*

Company/Firm: _____ Phone: _____
 Contact Name: _____ FAX: _____
 Mailing Address: _____ E-mail: _____

Any cancellations must be made one week prior to the workshop
 No Shows may be billed for any costs incurred

State of Hawaii Department of Transportation
Erosion and Sediment Control for Highways Workshop
COURSE OUTLINE

Module 1: Introduction

- a. Background
- b. Statewide Storm Water Management Program (SSWMP)
- c. Purpose and Expectations of the workshop
- d. Agenda

Module 2: Regulatory Requirements

- a. National Pollutant Discharge Elimination System (NPDES) permit
- b. Hawaii State Department of Health's water quality standards pertaining to the Islands of Oahu, Hawaii, Maui, and Kauai
- c. Special requirements for all projects that discharge, directly or indirectly, into Class I or Class AA waters
- d. Current City and County of Honolulu (CCH) requirements – Criteria based on project category 1 through 5
- e. Current Hawaii DOT requirements – slope criteria and checklist
- f. Revised Hawaii DOT requirements

Module 3: Erosion and Sediment Control (ESC)

Process

- a. Sediment Impacts
- b. Factors that influence soil erosion
- c. Basic principles of soil erosion and sediment control

Module 4: Overview and Development of ESC Plan

- a. Development of erosion control plans
- b. Requirements of erosion control plan:
- c. Planning procedures
- d. Soil erosion and sediment control plan content
- e. Sources of assistance
- f. Available information
- g. Standards and specifications

Module 5: Erosion Control and Stabilization Methods

- a. Plastic/geotextile covering, erosion control matting
- b. Dust control
- c. Vegetative stabilization: Top soils, seeding and mulching
- d. Stabilized construction entrance
- e. Gradient terraces or benches
- f. Earth dikes
- g. Tree protection
- h. Slope length shortening
- i. Track walking
- j. Run-on diversion

Module 6: Sediment Control and Containment

Methods

- a. Storm drain inlet protection
- b. Outfall protection
- c. Filter berm/compost filter berm
- d. Grassed swale
- e. Silt fence or filter fabric fence
- f. Check dams
- g. Sediment trap
- h. Sediment basin/modified risers and skimmers
- i. Level spreader
- j. Containment dike
- k. Interceptor dikes and swales
- l. Pipe slope drain
- m. Vegetated filter strips and buffers
- n. Rip-rap inflow and outlet protection

Module 7: Design/Construction Issues and

Considerations

- a. Phasing of site grading
- b. Construction sequence
- c. Water handling
- d. Proper installation and Maintenance

Module 8: Inspection and Monitoring Requirements

- a. Inspection checklist
- b. Correction
- c. Non-Compliance
- d. Evaluation of erosion and sediment control effectiveness

Module 9: Case Studies or Exercise

- a. Soil loss calculation
- b. Design calculations
- c. BMP sizing calculation