LOW-COST ROADWAY SAFETY IMPROVEMENTS

DESCRIPTION:

As an interim measure to capital (re)construction of high crash locations, recent highway safety research has identified a multitude of “low-cost” practices that can reduce crash frequency and has quantified the safety benefit of these practices. This course, based upon the NHI “Low Cost Safety Improvements” workshop, will cover these practices as they are applicable to Hawaii.

The workshop starts with an overview of highway safety issues with an emphasis on “do it now” solutions, it starts with steps to identify high crash locations. During the remainder of the workshop, participants will learn a host of countermeasures to address these locations along with their associated crash reduction factors as identified in the "AASHTO Strategic Highway Safety Plan -- NCHRP 500 Guidebooks." Specifically, countermeasures will be discussed in each of the following areas: roadside hazards; signing, markings, and lighting; traffic control devices; intersections; traffic signals; and railroad grade crossings; pedestrian issues will be discussed throughout.

A brief introduction to recent low-cost safety improvements developed by States and local engineers will also be provided. Through exercises and case studies, participants will learn to analyze highway safety situations and apply appropriate “low cost” countermeasures to improve those situations.

OBJECTIVES:

Upon completion of the course, participants will be able to:

- Identify appropriate engineering countermeasures from crash patterns
- Recognize deficiencies in operation/design and select appropriate countermeasures for roadside hazards
- Recognize deficiencies in safety performance of signing, markings, and lighting, and elect appropriate countermeasures
- Recognize deficiencies in operation/design of intersections and select appropriate countermeasures
- Recognize deficiencies in operation/design of traffic signals and select appropriate countermeasures
- Recognize deficiencies in operation/design of railroad grade crossings and select appropriate countermeasures
- Illustrate new and innovative low-cost safety improvement measures developed by State DOTs

TARGET AUDIENCE:

Federal, State, and local transportation, traffic and safety engineers, and planners involved in reducing intersection crashes.

INSTRUCTOR:

Keith A. Trimels is a registered Professional Engineer in AZ, CA, ID, and WY. With 20 years of experience in the transportation industry, he has designed, built, and maintained roads throughout the western U.S. His experience ranges from materials testing to multi-million dollar project management and business development.

Mr. Trimels has worked in both the private and public sectors, and most recently was a nationally recognized safety and Intelligent Transportation System (ITS) engineer with the Federal Highway Administration (FHWA) before serving as the Western Regional Manager for a national ITS consultant. He is currently a Principal with IDT Group where he incorporates his broad experience into technical, leadership, and organizational training for transportation organizations and others.
Registration Procedure
1) Please contact Gail Ikeda at 956-8367, 956-8851 (FAX) or gail@eng.hawaii.edu by Monday, June 26, 2006.
2) Attendance is limited, and preference is given to local government employees.
3) Private company registration fee is $50 (includes parking pass).

Cancellations
Please contact us if you must cancel your registration or if someone will be substituting for you. Refunds will be made if notice of cancellation is received at least 3 working days prior to the workshop date.

Parking
Parking for the East West Center is $4/day. If you would like to a parking pass, please contact us by June 26, 2006. Make checks payable to Research Corporation of the University of Hawaii (RCUH) and mail to:
Hawaii LTAP
University of Hawaii
Dept of Civil and Environmental Engineering
2540 Dole St, Holmes 383
Honolulu, HI 96822
Attn: Gail Ikeda

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July 10, 2006
East-West Center
Jefferson Hall, Asia Room
1777 East-West Road
8:30 a.m. – 4:30 p.m.

Workshop sponsored by the
Hawaii Local Technical Assistance Program
in cooperation with the
Hawaii State Department of Transportation
University of Hawai‘i’s Department of Civil & Environmental Engineering
and the Federal Highway Administration

Hawaii Local Technical Assistance Program
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