

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 National Highway Institute (NHI) "Low Cost Safety Improvements Workshop", will cover these practices as they are applicable to the local area.

The course starts with an overview of roadway safety issues with an emphasis on "do it now" solutions; it starts with steps to identify high crash locations. During the remainder of the course, 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" as well as information garnered from real world experience. The course goal is to introduce participants to a multitude of "low-cost" practices that can reduce crash frequency by identifying and naming appropriate engineering countermeasures for: roadside hazards; signing, markings, and lighting; traffic control devices; intersections; traffic signals; and railroad grade crossings. Pedestrian issues are discussed throughout the course.

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

OBJECTIVES:

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

1. Identify appropriate engineering countermeasures from crash patterns
2. Identify operation/design deficiencies and name appropriate countermeasures for roadside hazards
3. Identify operation/design deficiencies and name appropriate countermeasures for signing, markings, and lighting
4. Identify operation/design deficiencies and name appropriate countermeasures for intersections
5. Identify operation/design deficiencies and name appropriate countermeasures for traffic signals
6. Identify operation/design deficiencies and name appropriate countermeasures for railroad grade crossings

COURSE LENGTH:

This course offering will be (1) day long, from 8:30 AM to 2:30 PM. We will have a **working lunch** to accomplish all of the instructional activities.

TARGET AUDIENCE:

Federal, State, and local transportation, traffic and safety engineers, maintenance personnel, and planners who are involved in reducing roadway crashes.

INSTRUCTOR:

Keith A. Trimels has 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

Please contact Jodie Yanagihara at 961-8324 or jyanagihara@co.hawaii.hi.us by **Monday, June 18, 2007**.

Cancellations

Please contact us if you must cancel your registration or if someone will be substituting for you.

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June 21, 2007

Naniloa Hotel

8:30 a.m. – 2:30 p.m.

Workshop sponsored by the

**County of Hawaii
and
Hawaii Local Technical Assistance
Program**

in cooperation with the
*Hawaii State Department of Transportation
University of Hawaii's
Department of Civil & Environmental Engineering
and the Federal Highway Administration*

Hawaii Local Technical Assistance Program

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