

Federal-Aid Highways 101

OBJECTIVES:

The objective of this course is to provide an overview of the key elements of the Federal-aid Highway Program. It is intended to provide a complete overview of the entire federal-aid highway development process and is appropriate for all levels within the Department of Transportation (DOT).

DESCRIPTION:

This course will focus on:

- General requirements and laws that govern the Federal-aid highway program;
- Processes and procedures followed in the entire project development process including: financing, planning, environment, right of way, highway & bridge design, construction, operations/ITS & maintenance, safety, technology; and,
- Identifying flexibility inherent in the Federal-aid program.

AGENDA SUMMARY:

Day 1:

Registration and Introduction of Course

Background of Federal-Aid / History

- Federal-Laws & Regulations
- Federal-Aid Programs

Financing Federal-aid Highways:

- Authorization / Appropriation
- Federal-Aid Financing Procedures

Planning:

- Planning Process (STIPS / TIPS / Financial viability)
- Statewide & Metropolitan Planning
- Asset Management / GASB #34

Environment

- National Environmental Policy Act (NEPA)
- FHWA Policy & Requirements
- Transportation Decision
- Documentation (CE's / EA's / EIS's)

Day 2:

Right-of-Way

- Uniform Act / Utility Accommodation

Highway & Bridge Design:

- Design Process including consultant selection
- Context Sensitive Design
- Design Standards and Design Exceptions (Safety)
- National Bridge Inspection Standards
- Highway Bridge Replacement & Rehabilitation Program

Construction

- Contract Administration
- Pre & Post Award Procedures

Technology

- Research / Technology Transfer / National Highway Institute

Operations

- Intelligent Transportation System (ITS) / Funding
- Maintenance

TARGET AUDIENCE:

This course (also NHI # 310110) is especially tailored for State DOTs. The course provides participants with an overview of the key elements of the Federal-Aid Highway Program.

INSTRUCTOR:

Charles J. Nemmers, P.E., a certified NHI Instructor, teaches the course. He brings a wealth of knowledge and experience to the course, gained from his 32 years with the FHWA where he was the Division Administrator in Delaware, Georgia and New Jersey; and then served as the FHWA's Director of the Office of Engineering R&D in Washington, D.C. In 2002 he founded CHARLES NEMMERS, Inc. a firm involved in providing transportation engineering, training, and management support to both public and private sector clients. He is also currently a member of the Civil and Environmental Engineering faculty at the University of Missouri-Columbia where he is the Director of the Transportation Infrastructure Center which he founded in 1999.

Parking

Parking for the East West Center is \$8 (\$4/day). If you would like a parking pass please contact us by November 12, 2007. Make checks payable to the Research Corporation of the University of Hawaii (RCUH) and mail to:

Hawaii LTAP
University of Hawaii at Manoa
Dept. of Civil & Environmental Engineering
2540 Dole Street, Holmes Hall 383
Honolulu, HI 96822

Federal-Aid Highways 101

November 26-27, 2007

OR

**November 29-30, 2007
(2 separate sessions)**

East-West Center,
Jefferson Hall, Keoni Auditorium
1777 East-West Road
8:00 a.m. – 4:30 p.m.

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

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