

Federal-aid Highways -101

for

Hawaii DOT

Developed and Presented by
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Agenda & Class Schedule

DAY 1

- 8:00 Registration
- 8:15 Introduction of Course
- Administrative details
 - Introductions of Participants
 - Objectives of Course
 - Course & Manual Overview
- 8:30 Background of Federal-Aid – Module 10
- History
 - Federal-Laws & Regulations
 - Legislative Process
 - Federal-aid Programs
(Civil Rights, Safety...)
- 9:10 Stretch Break
- 9:20 Background (continued)
- FHWA's Organization relationship with Other Agencies
 - State – FHWA relationship
- 9:45 Networking Break

- 10:00 Financing Federal-aid Highways – Module 20
- Trust Fund
 - Authorization / Appropriation
 - Federal-aid Financing Procedures
 - Matching Ratio / lapse / transferability
 - Innovative Financing
 - NHI Courses regarding Financing
- 11:45 Lunch
- 1:00 Planning – Module 30
- Planning Process
 - Statewide Planning
 - Metropolitan Planning
 - STIPS-TIPS-Financial viability
 - Functional Classification
 - Highway Performance Monitoring System (HPMS)
 - Asset Management / GASB #34
- 2:15 Cookie Exercise and Break
- 2:45 Planning exercise
- 3:00 Environment – Module 40
- Background
 - National Environmental Policy Act (NEPA)
 - FHWA Policy & Requirements
 - It's all about process
 - Transportation Project Development
- A) Transportation Decision
- Purpose and need
 - Alternates
 - Impacts and mitigation
 - Public involvement
 - Interagency coordination
- B) Documentation
- Integrated Decision Making
 - CE's / EA's / EIS's
 - Processing Environmental Findings
 - Section 4(f) Resources
 - Other Federal laws & acts
- 4:30 Environment Exercise
- 4:45 Adjourn

DAY 2

- 8:00 Recap of Day 1
- 8:15 Right-of-Way - Module 50
- Project Development
 - Right of way Availability - Certification
 - Uniform Act
 - Property Management
 - Utility Accommodation
- 9:00 Stretch Break
- 9:15 Team Exercise – Finance / Planning / Environment / Right-of-Way
Team Reports & Discussion
- 9:45 Networking Break
- 10:05 Highway Design – Module 60
- Design Process including consultant selection
 - Project Scope
 - Environmental Considerations & Commitments
 - Context Sensitive Design / Solutions
 - Highway Capacity Manual
 - Design Standards
 - Safety
- 11:00 Bridge Design – Module 60
- Bridges Standards & Bridge Formula
 - National Bridge Inspection Standards
 - Highway Bridge Replacement & Rehabilitation Program
 - New Technology
- 11:45 Design Exercise & Discussions
- Noon Lunch
- 1:00 Construction – Module 70
- Contract Administration
 - Pre & Post award procedures
 - Technical Assistance on projects/problems
 - Safety – Work Zone Traffic Control
 - Environmental Commitments

- 2:30 Team Exercise – Partnership State / FHWA / Industry
Diverse Project Team will identify ways (possible avenues)
to assist the state and industry in re-building a critical stretch
of freeway
- 2:45 Break
- 3:00 Technology – Module 80
- Research
 - Technology Transfer
 - National Highway Institute (NHI)
- 3:30 Operations – Module 90
- Intelligent Transportation System (ITS)
 - How ITS can help Operations
 - Funding
 - Traffic Engineering
 - Maintenance
- 4:15 Course Evaluations
Closing Remarks
- 4:30 Adjourn