

# Freeway Traffic Operations

*Workshop sponsored by the*

Hawaii Local Technical Assistance Program  
in cooperation with the  
Hawaii State Department of Transportation  
University of Hawaii's Department of Civil Engineering  
and the Federal Highway Administration

When: October 26 - 28, 1999

Where: HDOT's Oahu District Office, Conference Room 727 Kakoi Street

Time: 8:00 a.m. - 4:30 p.m.

Cost: FREE

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Deadline to register is Friday, October 15, 1999

Class size is limited to 40 participants

This course addresses basic traffic flow theory for freeways; evaluating freeway operations during project development and design. In addition, this course provides information on the freeway traffic control systems; traffic management centers; and operations analysis procedures for freeways.

**OBJECTIVES:** Upon completion of this course, participants will be able to:

1. Identify the interrelationships between various elements that affect freeway operations,
2. Identify the operational concerns of greatest significance,
3. Describe the concept of system integration and the relationships between freeway planning, design, construction, operations, safety, and maintenance issues,
4. Describe theoretical models for traffic flow theory,
5. Explain how freeway geometric characteristics affect operational efficiency,
6. Recognize the role of data in managing a freeway system and determine the most appropriate data to use and how to collect it,
7. Analyze the operational quality of various freeway components using the procedures described in the course,
8. Describe alternatives for controlling freeway traffic and its impact on operations,
9. Assess the effectiveness of various procedures for managing incidents that affect freeway operations, and
10. Develop plans and procedures for managing scheduled activities to minimize the impacts on freeway operations.

**TARGET AUDIENCE:** Federal, State and local transportation professionals involved in planning, design, and implementation of freeway traffic operational improvements.