Bridge Inspection Refresher Training
(FHWA-NHI-130053)

East-West Center, Jefferson Hall,
Pacific Room
1777 East West Road
Honolulu, Hawaii  96848

Tuesday—Thursday,
October 18-20, 2011

8:00 a.m.—4:30 p.m.

Lunch is on your own.

Registration begins at 7:30 a.m. on the first day.

Registration Procedure
1. Please contact Gail Yamamoto at 808-956-8367 or gyamamo@hawaii.edu by Monday, September 26, 2011.
2. Attendance is limited, and preference is given to local government employees.
3. Private company registration fee is $770 per person.

Parking
East-West Center (EWC) parking passes are available at $5/day ($15 total). If you would like a parking pass please contact us by Monday, September 26, 2011. All vehicles (including government vehicles) are required to have an EWC parking pass in order to park in the EWC specified areas.

Payment
Registration payment can be made via Check – payable to the Research Corporation of the University of Hawaii (RCUH), Purchase Order, Credit Card (Visa & MasterCard) or Purchasing Card. Please mail payments to:

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

Cancellations
Please contact us if you are unable to attend or if someone will be substituting for you. Refunds will be made if notice of cancellation is received at least 10 working days prior to the workshop date. Frequent no shows will result in receiving lower priority in future enrollments.
Course Description:

The major goals of this course are to refresh the skills of practicing bridge inspectors in fundamental visual inspection techniques; review the background knowledge necessary to understand how bridges function; communicate issues of national significance relative to the nations' bridge infrastructures; re-establish proper condition and appraisal rating practices; and review the professional obligations of bridge inspectors.

This course is based on the "Bridge Inspector's Reference Manual," 2002 (updated in 2006) with reference to the AASHTO Manual as defined by the National Bridge Inspection Standards regulation.

Core course topics include inspector qualifications and duties, bridge mechanics, record keeping and documentation, fatigue and fracture in steel bridges, traffic safety features, safety, National Bridge Inventory (NBI) component ratings, superstructure type identification, inspection techniques and case studies for decks, superstructures, bearings, substructures, channels and culverts, and a virtual bridge inspection classroom exercise.

Optional topics include fiber reinforced plastic (available June 2010), inspection of truss gusset plates, inspection of adjacent box beams, bridge site signing (available September 2010), structure inventory and appraisal overview (available June 2010), common NBI miscodings (available September 2010), element level ratings and timber superstructures.

Course Outcomes:

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

- Describe the current overall condition and condition trends for the nation's bridges
- Identify the recent National Bridge Inspection Standards (NBIS) revisions
- Accurately code National Bridge Inventory (NBI) items
- Identify and document inspection observations using standard methods
- Evaluate defects based on the 2008 AASHTO Manual for Bridge Evaluation
- Code NBI components using the Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges
- Determine if overall structure/structural member is fracture critical prone
- Accurately inspect and evaluate a bridge's four traffic safety features
- List the keys to ensuring a safe work environment
- Explain bridge responses and bridge mechanic principles

Target Audience:

The target audience for this course includes Federal, State, and local agencies and private sector personnel employed in inspecting bridges or managing bridge inspection programs. The course is built to accommodate those that have completed comprehensive bridge inspection training (130055 or similar) or met the criteria for a bridge inspector under the State's procedures or requirements.

Instructors:

**Jeff Rowe, P.E.**

Jeff Rowe has 19 years of experience. He serves as a project manager and senior engineer for structural inspection, bridge and structural design, waterfront facilities inspection and design, and construction engineering. He has presented papers to the National Transportation Research Board and has taught and lectured at both The Citadel and Clemson University on a variety of engineering topics. He is an FHWA-certified instructor, having developed and taught NHI Course No. 130091, "Underwater Bridge Inspection." He is also active in the PONTIS User Group, participating in regional meetings and training, as well as international conferences.

**Christopher Howard, P.E.**

Mr. Howard has 27 years of experience in the inspection, rehabilitation, and widening of existing structures, including historic bridges, and the design of new fixed and movable bridges. He has been a project manager and project engineer for bridge inspections, bridge rehabilitations, new bridge designs, historic bridge rehabilitation studies and designs, and research projects.