SAFETY INSPECTION OF IN-SERVICE BRIDGES

DESCRIPTION:

This course is based on the new "Bridge Inspector's Reference Manual," providing training on the safety inspection of in-service highway bridges. Satisfactory completion of this course will fulfill the training requirements of the National Bridge Inspection Standards (NBIS) for a comprehensive training course.

Mid-term and final examinations based on course content will be administered to participants. The sponsoring Agency/State may monitor the examinations and retain the scores to qualify or certify bridge inspectors. The sponsoring agency is responsible for grading the examinations. An answer key will be provided.

OBJECTIVES:

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

- Evaluate a variety of bridges and determine the critical areas for inspection including fracture-prone details, and common points of deterioration and/or distress.
- Review as-built plans and previous inspection reports and, based on this review, plan and conduct an effective safety inspection for common bridge types and bridge-length culverts.
- Provide documentation of defects in various materials and of bridge configurations.
- Recognize the need to inspect the underwater portions of bridge structures; describe the types of deficiencies to look for (e.g., scour); determine when an inspection is necessary; and identify the procedures and types of equipment available and the advantages and limitations of each.
- Evaluate the severity of material deterioration and member distress and assign ratings according to coding guidance as developed by FHWA and/or the State highway agency. Determine when it is necessary to close the bridge (or recommend closure) because of imminent danger.
- Discuss the equipment requirements for a complete inspection and demonstrate proficiency.
- Recognize when further inspection, such as Non-Destructive Testing (NDT), is required beyond the usual visual and hand tool inspection and decide what type of further inspection should be conducted.

TARGET AUDIENCE:

Federal, State, and local highway agency employees involved in inspecting bridges or in charge of a bridge inspection unit. A background in bridge engineering or completion of NHI course 130054 - Engineering Concepts for Bridge Inspectors is strongly recommended.

INSTRUCTORS:

Guy R. Lang
Bridge Related Experience since 1972
BSCE from Geneva College
MET from Penn State University
Professional Engineer-Pennsylvania

J. Eric Mann
Bridge Related Experience since 1971
BSCE from University of Texas at El Paso
NHI Certified Instructor 2000
Professional Engineer-Pennsylvania

Registration Procedure

1) Please contact Gail Ikeda at 956-8367, 956-8851 (FAX) or gail@eng.hawaii.edu by ***Friday, November 18, 2005***
2) Attendance is limited to 30 participants, and preference is given to local government employees.
3) Private company participation is on a space available basis at a fee of $1,690.00 (includes parking pass).

Cancellations

Please contact us if you must cancel your registration or if someone will be substituting for you. Refunds will be made if notice of cancellations is received at least 3 workdays prior to the workshop date.

Parking

Parking for the East West Center is $4/day (total $40). If you would like a parking pass please contact us by November 18, 2005. Make checks payable to the **Research Corporation of the University of Hawaii (RCUH)** and mail to:

Hawaii LTAP
University of Hawaii
Dept. of Civil and Environmental Engineering
2540 Dole St., Holmes 383
Honolulu, HI 96822
Attn: Gail Ikeda

SAFETY INSPECTION OF IN-SERVICE BRIDGES

December 5-16, 2005
(Monday through Friday)
East West Center, Jefferson Hall, Pacific Room
1777 East West Road
8:00 a.m. – 4:30 p.m.

Workshop sponsored by the

Hawaii Department of Transportation and the Hawaii Local Technical Assistance Program

in cooperation with the
University of Hawaii's Department of Civil Engineering and the Federal Highway Administration

Hawaii Local Technical Assistance Program
University of Hawaii at Manoa
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