

A course sponsored by the Department of Civil Engineering
College of Engineering, New Mexico State University

BRIDGE INSPECTION TRAINING

Comprehensive Course for Inspectors

January 4-15, 2010

May 10-21, 2010

*“27.1 percent of our nation’s
bridges are structurally deficient
or functionally obsolete”*

ASCE Report Card for America's Infrastructure



NM Department of
STATE Civil Engineering

Department of Civil Engineering

College of Engineering

New Mexico State University

MSC 3CE, PO Box 30001

3035 Espina Street

Las Cruces, New Mexico 88003-8001

NON-PROFIT ORGANIZATION

US POSTAGE

PAID

LAS CRUCES, NM

PERMIT NO. 162

Continuing Education Units. Each paid participant completing this comprehensive course will earn 6 continuing education units (CEUs).

Course Objective

The National Bridge Inspection Standards (NBIS) requires bridge inspectors to complete a Federal Highway Administration (FHWA) approved comprehensive training course. The Department of Civil Engineering at New Mexico State University has designed a training course to meet these objectives and will issue a certificate indicating the extent of the training to individuals completing that course.

Requirements

This course satisfies the requirements for comprehensive Bridge Inspection Training course as defined by the Federal Highway Administration.

Registration and Fee

You should register at least one week in advance. Course fee is \$1500. The fee covers notebooks, handouts, manuals, papers, break refreshments, and certificates.

Course enrollment is limited to 35. Please register at least one week in advance. Payment is due upon registration.

Online Enrollment

<http://cagesun.nmsu.edu/bridge-inspection/training-course.html>

Order confirmation will be sent to the email you provide.

Refunds

You may cancel and receive a refund until 30 days prior to the start of the course or you may send a substitute if you are unable to attend.

Location

This class is taught on the main campus of New Mexico State University in Las Cruces, New Mexico. There will be field trips to common bridge types in the area.

Bridge Inspection Training



Under bridge unit may be necessary for proper bridge inspections access. (Note: inspectors on right of photo)



Hands on inspection of every major component.



Live, Learn and Thrive.



Wow, we are 650 feet above the Rio Grande here!



Relax, now it is only 630 feet down to the river!

Course Topics

- Bridge Elements, Evaluation of Damage and Deterioration
- Evaluation and Condition Rating of Steel Bridges
- Evaluation and Condition Rating of Concrete Bridges
- Evaluation and Condition Rating of Timber Bridges
- Evaluation and Condition Rating of Trusses
- Introduction to Mechanics of Concrete
- Introduction to Mechanics of Steel
- Appraisal Rating of Bridges
- Federal Coding and Inventory Forms
- Deterioration of Concrete
- Corrosion of Steel, Deterioration of Timber
- Preparation and Sequence of Inspections, Safety and Tools
- Signing and Bridge Approaches
- Evaluation of Waterways
- Substructure Evaluation and Condition Rating
- Laboratory Demonstrations, Field Inspection of Bridges
- Introduction to Rehabilitation Techniques for Bridges

Training History

The Department of Civil Engineering faculty has conducted comprehensive bridge inspection training for the New Mexico Department of Transportation since 1972 and has conducted two-week training courses for the Federal Highway Administration through the National Highway Institute since 1982.



Registration Form

Please enroll me in the Comprehensive Bridge Inspection Course

_____ January 4-15, 2010

_____ May 10-21, 2010

_____ Bill my company

_____ Purchase order or check enclosed (Check payable to
Department of Civil Engineering, New Mexico State University)

_____ Credit Card

Name _____

Title _____

Company _____

Address _____

City _____

State _____ Zip _____

Phone _____

Fax _____

Mail

Department of Civil Engineering
New Mexico State University
MSC 3CE
P.O. Box 30001
3035 Espina Street
Las Cruces, New Mexico 88003-8001

Call

David V. Jauregui (Course Information)
Director, Bridge Inspection Program
(575) 646-3514
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Adela Castro (Payment Information)
Department Secretary
(575) 646-3134
(575) 646-6047 (fax)

Faculty

Kenneth R. White, PE, Professor Emeritus, Civil Engineering

Teaches structural design, foundation design. Research includes bridge inspection and analysis, bridge foundation analysis, pavement and bridge overload evaluation.

Samuel P. Maggard, PE, Professor Emeritus, Civil Engineering

Teaches construction methods, steel design, experimental stress analysis. Research includes weigh-in motion studies and box beam analysis. Experience includes Kentucky Highway Department, White Sands Missile Range, and Chicago Bridge and Iron. Director and originator of Quality Concrete School; instructor, New Mexico Bridge Inspection School and the National Highway Institute course; currently in charge of the New Mexico Bridge Inspection Program.

Leonard A. Traina, PE, Professor Emeritus, Civil Engineering

Teaches steel and concrete design, structural systems and structural analysis. Research includes triaxial testing of concrete, finite element analysis of plates and bridge inspection.

Clinton B. Woodward, PE, Professor Emeritus, Civil Engineering

Teaches steel design, timber design, and experimental analysis. Research on the nondestructive evaluation of concrete and steel bridges.

David V. Jauregui, PE, Associate Professor, Civil Engineering

Teaches engineering mechanics, structural analysis, and bridge design. Served as an instructor for Bridge Design Workshop using LRFD Specifications. Research includes experimental (static and dynamic field-testing, close-range photogrammetry) and analytical (finite element analysis, virtual reality) evaluation of bridge condition and behavior.

Craig M. Newton, PE, Associate Professor, Civil Engineering

Teaches engineering mechanics, construction materials, and reinforced concrete structures. Research includes development of nondestructive testing methods for concrete materials and structures, mitigation of concrete cracking through innovative construction practices and concrete materials.

