

PRACTICAL BRIDGE DESIGN
A ONE-DAY INTENSIVE COURSE

This course is designed to provide practicing bridge design engineers a focused overview of available concrete bridge design options, and present tools and design procedures necessary to tackle 5 of the most common concrete bridge types.

COURSE INSTRUCTORS

Dr. Bijan O. Aalami, S.E., is Professor Emeritus of San Francisco State University, Life Member of the Post-Tensioning Institute, Chartered Engineer, and Founder and CEO of ADAPT Corporation—a leading developer of building and bridge design software and specialized consulting services. For over 30 years, Dr. Aalami has been involved in the evaluation, retrofit and design of many international bridges.

Hugh D. Ronald, P.E., HDR Engineered Structures and Rapid Precast Construction Systems. Hugh is a consulting structural engineer with extensive experience in precast post-tensioned spliced girder design and construction. He was Engineer of Record on the St. George Island Project, and provided erection analysis and design of the temporary shoring towers for the Bay St. Louis and Biloxi Bay Bridges.

COURSE OBJECTIVE

After completing this course, you will be able to: evaluate the appropriate type of bridge for a given design scope, recognize how to utilize prestressing and post-tensioning in your projects, and apply practical design procedures for 5 typical bridge types.

Attendance is limited
Sign-up today!

1733 Woodside Road
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www.adaptsoft.com

ADAPT
ADAPT Educational Institute

PRACTICAL BRIDGE DESIGN
A ONE-DAY INTENSIVE COURSE

A One-Day Design-Oriented Practical Course
with Emphasis on
Pre- and Post-Tensioned Concrete

■ Arlington, VA, Thursday, June 3, 2010



This course carries
7 PDHs/0.7 CEUs.



ADAPT
ADAPT Educational Institute

WWW.ADAPTSOFT.COM
TEL: 650.306.2400

Registration Form

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COURSE OVERVIEW

This course, taught by two industry veterans, offers practical bridge design knowledge and design procedures for 5 commonly encountered concrete bridge types. The material of this course is structured to give each participant relevant and actionable information they can use to evaluate or design their next bridge.

Following a review of concrete bridge design fundamentals, the instructors present step-by-step design procedures for selected bridge types using real project examples. The design procedures presented emphasize the up-front identification of salient design criteria and follow with an efficient design process throughout the modeling, analysis and design steps.

Reference is made to state-of-the-art software tools, including ADAPT-ABI.

WHO SHOULD ATTEND

- Practicing bridge design engineers
- DOT officials assigned to develop or review bridge design options



TOPICS COVERED

- Review of concrete bridges: categories, historical development, applicability, design, and performance.
- Essentials of AASHTO provisions for concrete bridge design: lists and reviews items most relevant to design of concrete bridges, including loads, load combinations and code checks.
- Fundamentals of concrete bridge design: Review of structural modeling of the bridge superstructure, pre- and post-tensioning as well as cast-in-place and precast concrete, time-dependent effects, composite action, and segmental construction.
- Design examples for 5 common bridge types. For each bridge type, the instructors will elaborate on design variations, present a design procedure and review a detailed numerical example. Included bridge types are:
 - Simple precast prestressed AASHTO girder
 - Spliced girder bridge
 - Box girder bridge
 - Balanced cantilever bridge
 - Cable stayed bridge
- Bridge design tools featuring ADAPT-ABI: demonstrate capabilities and efficient modeling, analysis and design of 5 examples.

Sign up for:

June 3, 2010— 8am—5pm
Hampton Inn & Suites Reagan National Airport
Arlington, VA

Registration Fee

\$ 495

Multiple attendee discount—
\$50 discount/person from the same
firm

(\$)

Total: _____

Name _____

Address _____

E-mail _____

Phone _____

Method of Payment

Check—Payable to ADAPT

Visa

MasterCard

American Express

Credit Card # _____

Signature _____ Exp. date _____

Billing Address (same as above) _____

Conditions: Cancellations must be made in writing. If you cancel 7 business days or less prior to the seminar start date, no refund/credit will be issued. You may transfer your registration to another registrant with no penalty up until the day of the seminar. No credits/refunds will be issued for no shows. If ADAPT must cancel a seminar due to insufficient enrollment, your registration fee will be refunded in full. ADAPT is not responsible for non-refundable expenses such as airfare, hotels, transfer fees, or any other expenses associated with a cancellation. ADAPT reserves the right to change the venue within the vicinity.

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