

PDH WEBINAR SELF-STUDY PROGRAM CDs

ACEC New York has the following webinar archives in our course library. Each self-study package contains: a CD that contains an audio/video file from the webinar, the PowerPoint handout (printed and electronic versions), and a 10-question quiz. Please see page 4 & 5 for pricing and order/payment form. Each course includes administration of one quiz. If other licensees at your same location would like to utilize the course for PDH credits, you may pre-purchase additional tests in advance or by completion of an "additional tests payment form" that will be included with each package. For each successfully completed course determined by a score of 70% or greater on the quiz, a certificate of completion will be sent by e-mail to the licensee. If you participated in the LIVE webinar, you will not be able to earn credits for the self-study course. New York Professional Engineers may earn 18 self-study credits during each 3-year registration period.

Available Self-Study Courses

2.0 PDH Credits (120 minute courses)

Green Building Sustainable Design: Review an introduction to Green Building concepts, and become more informed on USGBC/LEED involvement. What is "Green Building"?

Course #371ss

Transportation Structures Exposed: This presentation covers all types of transportation structures dealing with efficiency, performance and historical use.

Course #389ss

Mold 101: Explore the introduction into the world of mold. What is mold? Which species of mold are considered "toxic"?

Course #391ss

Hydronic System Basics+ : Review the basics to the hydronic design process. Become more comfortable making decisions concerning pump choice based on the dynamics of systems such as condenser, hot and chill water distribution.

Course #406ss

Building information modeling, Changing the Way we think About Project Roles and Responsibilities: This program describes BIM and how it functions. It will discuss its pros and cons in terms of how it affects project roles and responsibilities, how it changes the review process, and legal, licensing or practice implications and restrictions with regard to BIM.

Course #430ss

Energy Recovery-Commercial and Institutional Comfort Applications: This presentation provides fundamental understanding of Energy Recovery applications. Attendees will be more confident with designs utilizing Energy Recovery.

Course #501ss

Green Building in New York State: This presentation defines green buildings and LEED, the US Green Building Council's rating system. The talk describes the market for green buildings, explain how engineers can prepare themselves to provide services to this market and discuss technical and financial assistance available from NYSERDA.

Course #509ss

Ventilation in High Risk Buildings: This presentation provides an understanding of ASHRAE Standard 62 and NYC ventilation requirements for toilet and kitchen exhaust, NYSERDA incentives available when updating existing ventilation systems and a variety of methods for supplying make up air. The presentation also includes information on the pressure differences in high rise buildings as a result of Stack Effect and the new technology available for sealing exhaust riser leakage.

Course #649ss

Primary/Secondary/Tertiary Pumping Systems: The theory and applications of the "Law of Tee" to primary/secondary/tertiary pumping systems will be demonstrated. In addition, this theory and application will be expanded to demonstrate multi temperature pumping loops, pumping energy savings and how constant volume and variable volume pumping system can co-exist in primary/secondary/tertiary pumping systems.

Course #531ss

More Courses Next Page

Energy Recovery – Commercial and Institutional Comfort

Applications: There are various types of energy recovery technologies in the market each having their own pros and cons. Different types of applications will be discussed for example: dedicated outdoor systems, 100% outside air, control sequences of operation, etc.

Course #1138ss

The Evolution of Jobsite Erosion Control Technology:

When the Clean Water act was signed into law some 40 years ago, the demand for solutions increase significantly. This course will deal with the rapid growth of the erosion control product industry and will review current available technology and best management practices for permanent erosion control solutions.

Course #1169ss

Sustainability and Climate Action Planning Seminar:

This session reviews tools and resources available to develop, enhance and optimize your sustainability programs at an organizational and project level.

Course #1265ss

Condensing and Non-Condensing Boilers and

Applications: A review of the development of water tube boilers and water heaters in North America over the last 30 years. Includes discussions on boiler categories, emissions, development of boiler controls and efficiency as it relates to category and fuel heating value.

Course #1377ss

1.5 PDH Credits (90 minute courses)

Low Impact Development - Site Stabilization Tool Box:

The tools and techniques associated with LID (Low Impact Development) can help developers produce site plans that can hold storm water runoff at historic levels. This course outlines techniques that can reduce construction and municipal maintenance costs while increasing property values and compares and contrasts traditional practices with innovative methods that represent the future of land management and development.

Course #761ss

Overview of Geothermal Systems – Ground Couple Side

of Things: An introduction that will provide a general overview of the principle types of geothermal ground couples, key design principles (the pros and cons of each) and an explanation the differences between “Geothermal” and “GeoExchange”.

Course #867ss

Advances in Tunneling Technologies in the US and the

World: The presentation covers subjects such as state-of-the-art in rock tunneling, soft ground tunneling, mechanized excavation, tunnel boring machines and New Austrian Tunneling method will be discussed. The presentation also covers environmental and logistical issues associates with tunnel construction such as impact on groundwater regimes, impact on contaminated ground and groundwater, and muck disposal. Examples from projects in New York, US, and around the world will be presented.

Course #949ss

Ethics for Design Professionals: Participants will learn: definitions of ethics, fundamental canons of professional Codes of Ethics, discuss case studies, and understand how companies apply ethics to sound business practices.

Course #889ss

Geotechnical Instrumentation for Urban Underground:

The intent of this course is to provide an overview of the applications and benefits of geotechnical instrumentation in underground civil engineering projects. Special emphasis will be given to the instrumentation used in an urban environment. A discussion of recent technologies advancements and example projects will be included.

Course #901ss

Rebuilding America’s Roadways: America's roadway system has developed rapidly over the past two hundred plus years, and the demands we place on these systems continue to intensify. This workshop will examine new and emerging technology relative to highway construction, drainage and storm water management.

Course #1054ss

Seismic Design Requirements for Buildings and Building Components:

This course provides an overview and brief introduction to basic seismic forces and terms and will describe how to accommodate code required seismic forces into non-structural components such as architectural, electrical, mechanical and plumbing.

Course #1156ss

HVAC Noise & Vibration Control: This course provides a basic understanding of acoustics and relevant terminology, acceptance criteria, noise control techniques, compliance strategies and examples will be presented to minimize the risk of noise complaints and higher costs of remediation vs. design.

Course #1141ss

Ethics: Conflicts of Interest in Consultant/Government Relations:

The presenter discusses about what ethics for consultants really means and how government agencies have a multitude of rules describing what is and is not permissible.

Course #1348ss

Active and Passive Chilled Beams: Chilled beam systems (an alternative to traditional “all-air” conditioning systems) use water to move energy through a building. These systems result in energy saving since water is more efficient at transporting heat than air is. *Course #1427ss*

Displacement Ventilation: This program explains how Displacement Ventilation is an effective way to provide air conditioning and remove contaminants from the occupied zone while providing a high level of ventilation effectiveness and thermal comfort. *Course #1428ss*

Energy Storage, A System for the Green Capitalist:

Thermal Energy Storage has become common in sustainable chiller plant designs – it is recognized as a cost cutting technology but the energy saving and sustainable design attributes are not widely understood. This program explains what thermal storage is, how it works, design and control strategies and also discusses economic issues. *Course #1370ss*

1.0 PDH Credits (60 minute courses)

Bridge Inspection Practices: This training presents the history of bridge inspections, failures, development of federal codes and regulations, bridge inspection nomenclature, example bridge inspections, access equipment, reports, qualifications of team, recent legislation. *Course #675ss*

Engineering Future Highway / Bridge Revenue: The gas tax was originally designed as a user fee. However, in today’s day and age, the gas tax as we know it is not sustainable. This presentation will discuss the Vehicle Miles Driven Fee concept and review the differences in two approaches being looked at: 1) the Oregon VMT and 2) the Kasphe Area in Europe. *Course #687ss*

Construction Vibrations: Overview of vibration basics, ground motion, peak particle velocity, and the significance of frequency. It includes a review of the NYSDOT requirements, portable seismograph equipment and the key elements of vibration monitoring specifications. *Course #863ss*

Geothermal Heat Pump Systems – Design

Considerations: To provide engineers with an education about geothermal heat pump systems. The course will provide an overview of system and design considerations. *Course #909ss*

BIM for Bosses: BIM for Bosses is designed to explain the end goal of using BIM in your firm, the processes needed for a seamless implementation, and the hard facts in getting there. As importantly, “bosses” will be given a realistic view of what to expect, and what not to expect, once BIM is up and running. *Course #1055ss*

Applying Suspension Bridge Suspender Rope-Replacement Techniques to the Suspenders of a Through Arch Bridge:

Discusses the structural lifting system used to replace all 168 suspenders of the Northway Arch Bridges and the contractor’s alternative method for the replacement of the suspenders. *Course #1085ss*

Hospital Operating Room Air Distribution Systems: This program covers the various methods that have been used in the past and present to ventilate OR's to help reduce the instances of SSI's and the review of actual hospital OR installations and Cleanroom design guidelines.

Course #1131ss

The Little Green Schoolhouse: Acoustics & LEED for Educational Facilities: This program will evaluate through case studies how to achieve the acoustical design guidelines and standards for classrooms, specifically discussing mechanical system design, interior finishes and wall/floor assemblies.

Course #1174ss

NYCDEP Noise Regulations for Construction: This webinar will present the development of the new construction noise regulation, noise criteria and mitigation requirements and means and methods for construction contractors to comply.

Course #1333ss

Effective Integrated Project Delivery: Learn to identify and describe the benefits of an integrated project delivery process and detail the key considerations needed in order to achieve a successful IPD.

Course #1325ss

Recent Changes in Public Contracting Law and their Impact Upon the Profession of Engineering: This program includes a review of the recent changes in Public Contracting Law including Wicks Law, Project Labor Agreements and related sections of the Labor Law and their impact upon the practice of engineering in the State of New York.

Course #1331ss

Radiant Heating and Cooling: This webinar provides a fundamental understanding of HVAC Theory and Applications involving Radiant Heating and Cooling.

Course #1384ss

Anaerobic Treatment/ Waste to Energy: This program will provide an overview of waste to energy; including drivers for this markets and technologies that can be applied. Includes case studies where these projects can be applied and will show fatal flaws that can make the project not economically viable.

Course #1352ss

Order and Payment Information Next Page

ORDER FORM FOR SELF-STUDY PROGRAM CDs

2.0 PDH Courses (<i>indicate selections</i>)		# of Addt'l Tests
	Green Building Sustainable Design	
	Transportation Structures Exposed	
	Mold 101	
	Hydronic System Basics +	
	BIM: Changing the Way We Think About Project Roles and Responsibilities	
	Energy Recovery – Commercial and Institutional Comfort Applications	
	Green Building in New York State	
	Ventilation in High Rise Buildings	
	Primary/Secondary/Tertiary Pumping Systems	
	IBC 2006 Fire and Life Safety	
	Standby Power Systems	
	Energy Recovery – Commercial & Institutional Comfort Applications	
	The Evolution of Jobsite Erosion Control Technology	
	Sustainability and Climate Action Planning Seminar	
	Condensing & Non-Condensing Boilers	

1.0 PDH Courses (<i>indicate selections</i>)		# of Addt'l Tests
	Bridge Inspection Practices	
	Engineering Future Highway / Bridge Revenue	
	Construction Vibrations	
	Geothermal Heat Pump Systems – Design Considerations	
	BIM for Bosses	
	Suspension Bridge Suspender Rope Replacement Techniques	
	Hospital OR Air Distribution Systems	
	The Little Green Schoolhouse: Acoustics & LEED for Educational Facilities	
	NYCDEP Noise Regulations for Construction	
	Effective Integrated Project Delivery	
	Recent Changes in Public Contracting Law & their Impact Upon the Profession of Engineering	
	Radiant Heating and Cooling	
	Anaerobic Treatment/ Waste to Energy	

1.5 PDH Courses (<i>indicate selections</i>)		# of Addt'l Tests
	Low Impact Development – Site Stabilization Tool Box	
	Advances in Tunneling Technologies in the US and the World	
	Ethics for Design Professionals	
	Geotechnical Instrumentation for Urban Underground	
	Rebuilding America's Roadways	
	Overview of Geothermal Systems – Ground Couple Side of Things	
	Seismic Design Requirements for Buildings and Building Components	
	HVAC Noise & Vibration Control	
	Ethics: Conflicts of Interest in Consultant/ Government Relations	
	Active and Passive Chilled Beams	
	Displacement Ventilation	
	Energy Storage: A System for the Green Capitalist	

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 x \$75.00 (*member*) = _____
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PAYMENT FORM FOR SELF-STUDY PROGRAM CDS

PRICING:	2.0 PDH Courses	1.5 PDH Courses	1.0 PDH Courses	Additional Test
ACEC New York Member Pricing	\$95 <i>Includes 1 Test</i>	\$85 <i>Includes 1 Test</i>	\$75 <i>Includes 1 Test</i>	\$25 <i>for each additional test</i>
Non- Member Pricing	\$145 <i>Includes 1 Test</i>	\$125 <i>Includes 1 Test</i>	\$100 <i>Includes 1 Test</i>	\$70 <i>for each additional test</i>

ORDER TOTAL FROM PREVIOUS PAGE

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 _____ Total # of 1.5 PDH Courses
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 x \$125.00 (non-member) = _____
 _____ Total # of 1.0 PDH Courses
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 x \$100.00 (non-member) = _____
 _____ Total # Additional Tests, if any
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