



# AIA/CES Continuing Education Programs

To arrange an AIA/CES presentation for Professional Development Hours in your office, sign-up online at [www.pcicentral.org](http://www.pcicentral.org).

Any questions please email [phil@pci-central.org](mailto:phil@pci-central.org) or call 937-833-3900.

Provider Name: PCI Central Region

Provider Number: K360

Program #	Program Title and Learning Objectives	Learning Units	HSW Units
PC902a *	<b><u>Precast Concrete Solutions - Parking Structures</u></b>	1	1
	<p>Introduce precast concrete parking structure benefits, sustainability and components</p> <p>Show the simplicity of precast connections</p> <p>Present precast design issues &amp; considerations including opportunities for LEED qualification</p> <p>Demonstrate the economic and sustainable benefits of precast concrete throughout the project</p>		
PC903a *	<b><u>Precast Concrete Solutions - Industrial Structures</u></b>	1	1
	<p>Identify the different industrial applications for precast, prestressed concrete systems</p> <p>Explain the benefits of using precast, prestressed concrete in industrial structures</p> <p>Make an informed material choice for your next industrial building design</p> <p>Demonstrate the economic and sustainable benefits of precast concrete throughout the project</p>		
PC904a *	<b><u>Precast Concrete Solutions - Quality Control &amp; Certification</u></b>	1	1
	<p>Summarize information about quality assurance and personnel certification</p> <p>Summarize information about erectors qualified or certified by the PCI Field Certification Program</p> <p>Summarize basic procedures involved with respect to the Plant Certification Program</p> <p>Describe the different types of specification methods</p>		
PC905a *	<b><u>Precast Concrete Solutions - Education Facilities</u></b>	1	1
	<p>Review the case studies to learn why a Total Precast System and precast concrete insulated wall panels were chosen by the design team</p> <p>Understand the simplicity of precast concrete design details for a Total Precast Structure and the inherent sustainable attributes of concrete</p> <p>How using a Total Precast System has many owner, designer and user benefits while utilizing a sustainable building product</p> <p>Discuss the LEED implications and energy efficiency opportunities with precast concrete design</p>		
PC906a *	<b><u>Precast Concrete Solutions - Design Fundamentals</u></b>	1	1
	<p>Explain the different precast applications</p> <p>Discuss architectural and structural applications</p> <p>Sustainable impact of using structural and architectural precast in the design of a new structure</p> <p>Discuss the LEED implications and energy efficiency opportunities with precast concrete design</p>		

\*also available in 1.5 and 2 credit length programs

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<b>PC907a *</b>  *also available in 1.5 and 2 credit length programs	<u><b>Precast Concrete Solutions - Bridge Design</b></u>	1	1
	<p>Appreciate the growth in the demand for prestressed concrete bridges</p> <p>Explain the economic and sustainable advantages of using prestressed bridges</p> <p>Differentiate non-precast bridges from total precast bridges</p> <p>Understand the simplicity of precast concrete design details for a Total Precast Structure and the inherent sustainable attributes of concrete</p>		
<b>PC908a *</b>  *also available in 1.5 and 2 credit length programs	<u><b>Precast Concrete Solutions - Precast Stadium Design</b></u>	1	1
	<p>Identify the different precast, prestressed concrete systems used in stadium designs</p> <p>Explain the benefits of using precast, prestressed concrete in stadiums</p> <p>Discuss the benefits of PCI Certified precast producers</p> <p>Demonstrate the economic and sustainable benefits of precast concrete throughout the project</p>		
<b>PC909a *</b>  *also available in 1.5 and 2 credit length programs	<u><b>Precast Concrete Solutions - Sound Walls</b></u>	1	1
	<p>Demonstrate the economic benefits of precast concrete for sound and retaining walls</p> <p>Understand the sustainable attributes of precast concrete</p> <p>Illustrate the design flexibility precast offers DOT and design professionals</p> <p>Understand how precast wall panels are produced and the sustainable process</p>		
<b>PC910a *</b>  *also available in 1.5 and 2 credit length programs	<u><b>Precast Concrete Solutions - Community Storm Shelters</b></u>	1	1
	<p>Introduce the basic requirements of a FEMA 361 Storm Shelter</p> <p>Identify the components and sustainable attributes of a prestressed, precast concrete structure</p> <p>Present the benefits of precast concrete through greater quality control, sustainable material choices and design freedom</p> <p>Considerations in using a precast concrete system for your next project. Design opportunities, comparative materials and their utility and sustainable benefits</p>		
<b>PC911a *</b>  *also available in 1.5 and 2 credit length programs	<u><b>Precast Concrete Solutions - Sustainable Design</b></u>	1	1
	<p>Understand Green building versus sustainable design</p> <p>Precast as viewed by Life-cycle assessment</p> <p>Sustainable transportation-market opportunities</p> <p>Green building rating systems</p>		
<b>PC912a *</b>  *also available in 1.5 and 2 credit length programs	<u><b>Precast Concrete Solutions - Architectural Systems</b></u>	1	1
	<p>Introduce Architectural Precast Concrete</p> <p>Present the Benefits of Architectural Precast through greater quality control, sustainable material choices and design freedom</p> <p>Considerations in using a precast concrete systems for your next project. Design opportunities, comparative materials and their utility and sustainable benefits</p> <p>Examine the sustainable attributes of precast concrete construction</p>		

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<b>PC914a</b>	<b><u>Precast Concrete Solutions</u></b> <b><u>Precast Concrete Preassembled Buildings</u></b>	1	1
	<p>Introduce Precast Concrete Preassembled Buildings and their market applications</p> <p>Review the characteristics and owner benefits of Precast Concrete Preassembled Buildings</p> <p>Examine the manufacturing, delivery, sustainable attributes and installation processes for Preassembled Buildings</p> <p>Recommended design criteria for sustainable preassembled buildings</p>		
<b>PC915a *</b>	<b><u>Precast Concrete Solutions - Integrated Design</u></b>	1	1
	<p>Demonstrate the economic benefits of precast concrete throughout the project</p> <p>Understand the sustainable attributes of precast concrete</p> <p>Illustrate the design flexibility precast offers design professionals</p> <p>Discuss long-term health benefits of precast concrete to benefit the inhabitants of the structure</p>		
<b>PC916a *</b>	<b><u>Precast Concrete Solutions</u></b> <b><u>Hollowcore Floor and Roof Systems</u></b>	1	1
	<p>Understand the process of designing and manufacturing precast/prestressed concrete floor and roof components</p> <p>Discuss quality control advantages of manufactured precast/prestressed concrete products</p> <p>Discuss when and where precast/prestressed concrete floor and roof systems are beneficial</p> <p>Review case studies of precast/prestressed concrete floor and roof installations</p>		
<b>PC8PCa *</b>	<b><u>Parking Structures - Cost Considerations</u></b>	1	1
	<p>Economic and Cost benefits of precast concrete through improved schedule and construction (erection) speed, site operations and coordination with other trades.</p> <p>Quality issues discussed to include plant certification, precast concrete durability, and quality of precast concrete products and systems.</p> <p>Maintenance of parking structures will be discussed in the areas of housekeeping, preventive maintenance, and repairs. The selection of materials in design that will affect the durability of a parking structure will also be discussed.</p> <p>The basic elements of precast parking structures will be presented.</p>		
	<b><u>Precast Concrete Solutions - Plant Tour</u></b>		
<p>Attendees will observe how designs and engineering details are executed in the precast manufacturing process. Plant tours include observing the entire precast and prestressed manufacturing process from engineering and connections, forms set-up, casting and finishing. Precast and prestressed concrete capabilities and quality issues will be covered. Attendees will learn how precast fits within the entire building system and how to specify precast concrete accurately and safely.</p>			
<b>PC9PT1</b>	Precast Concrete Solutions - Plant Tour & Presentation – 1 hour	1	1
<b>PC9PT2</b>	Precast Concrete Solutions - Plant Tour & Presentation – 2 hour	2	2
<b>PC9PT3</b>	Precast Concrete Solutions - Plant Tour & Presentation – 3 hour	3	3
<b>PC9PT4</b>	Precast Concrete Solutions - Plant Tour & Presentation – 4 hour	4	4
<b>PC9PT5</b>	Precast Concrete Solutions - Plant Tour & Presentation – 5 hour	5	5

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