

CONSTRUCTION 201: Basic Pool Construction

October 7 - 9, 2018

Hyatt Regency Cincinnati • Cincinnati, Ohio

This three-day program is divided into several modules (see ENGINEERING 101 – 104, CONSTRUCTION 101 – 109, and CONSTRUCTION 171 for specific details) presented by experts in each trade. The program begins with engineering topics such as basic plumbing, geotechnical, structural, and electrical design. With a basic understanding of the engineering, Day two begins with layout, forming, and coordination of utilities, safety barriers, and other related infrastructure. Shotcrete, waterproofing, tile, and coping trades are also addressed. The final day includes concrete decking, plaster, startup details, and an interactive walkthrough of a sample project from beginning to end. This program is designed to move each student through all the phases of basic pool construction in great detail unlike anything else offered in the industry – it will make every builder better and it is a requirement to become a GENESIS® Associate member.

Learning Objectives:

- Discuss Basic Pool Plumbing, Geotechnical Engineering, Structural Engineering, Electrical Engineering.
- Define Layout, Forming & Excavation, Infrastructure Coordination, Shotcrete, Waterproofing.
- List Basic Tile & Coping, Concrete Decking, Pre- Plaster Preparation, Cementitious Pool Finishes.
- Discuss Startup, Punch List & Project Closeout, Project Profile.

Topics Covered:

- E101: Basic Pool Hydraulics
- E102: Best Practices for Soil Design and Engineering
- E103: Structural
- E104: Electrical
- C101: Layout, Forming & Excavation
- C102: Infrastructure Coordination
- C103: Shotcrete
- C104: Waterproofing
- C105: Basic Tile & Coping
- C106: Concrete Decking
- C107: Pre-Plaster Preparation
- C108: Cementitious Pool Finishes
- C109: Startup, Punch List & Project Closeout
- C171: Project Profiles – An Interactive Discussion on Design and Construction



Price: \$3,200 (tuition includes all materials, breakfast and lunch each day and a group dinner one night)

** Contact MPG for Member Discount*

Deadline to register: September 15 at www.genesis3.com

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Instructors



William T. Drakeley, Jr., ACI, SWD® Master, GENESIS Education Deputy Directory
Drakeley is principal and founder of Drakeley Pool Company, a luxury design and build firm based in New England, and Drakeley Industries, an international consulting firm focusing on shotcrete applications and techniques, notably providing training for the New York City Metropolitan Transit Authority underground tunneling projects. Bill is the first and only pool builder to sit as a Voting Member of the American Concrete Institute's (ACI) Committee 506 – Shotcrete and serves as Secretary of ACI C660 Nozzleman Certification Task Group. Bill is also sitting President of the American Shotcrete Association (ASA) and the Chairman of the ASA's Pool and Recreational Shotcrete Committee.



David J. Peterson, P.E., SWD® Master, GENESIS, Director of Education
Peterson is President/CEO of Watershape Consulting, Inc., an international planning, design, and engineering firm providing owners, architects, contractors, and the legal profession with services relating to residential, commercial, and institutional pools, spas, and water features. He obtained his B.S. Civil Engineering at Cal Poly, San Luis Obispo and is a licensed engineer in several states. Peterson has been in the watershaping industry since 1994 when he began his career designing life support systems for large aquariums and marine mammal exhibits. He was Vice President Engineering at Polaris Pool Systems where he developed and patented several products. He is a prolific writer and is actively involved with trade organizations and code development.



Paolo Benedetti, SWD® Master
Benedetti is the founder of Aquatic Technology Pool & Spa, an international consulting and design firm specializing in high-end residential and commercial projects. Benedetti is a watershape designer, trapeze artist, pool contractor, expert witness and consultant to owners, architects, landscape architects, and builders throughout the world. He is a prolific writer, authoring hundred's of articles and administering the GENESIS® Forum with his acute attention to detail and robust construction experiences.



Randy Dukes
Dukes is regarded as one of the foremost authorities in the pool plaster industry relating to deterioration, discoloration, and staining phenomenon that are commonly associated with cement-based pool coatings. He has served as a moderator and keynote speaker for many of the National Plasterers Conventions starting in 1992, and has instructed courses on "The Science of Cementitious Pool Finishes, Startups, and Maintenance." Dukes has spent a considerable amount of time traveling throughout the U.S. researching and identifying pool surface problems and their relationship to application, water chemistry, and chemical abuse.

Accreditation



24 hours / 2.4 IACET CEUs
Pending DBPR/CILB - Florida Approval

**Prerequisite for C401: Advanced Watershape Construction hosted at the 2018 International Pool / Spa / Patio Expo*

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