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## ***Allan Block Engineering Presentation – Best Practices with Complex Composite Structures***

### **Course Description**

The Allan Block Best Practice presentation is intended to communicate the best practices for design of Segmental Retaining Walls (SRW) as determined by Allan Block Corporation based on 25 plus years of research, design and field experience. As part of the presentation, twelve different design topics will be introduced that will cover topics from initial design considerations to how the top of the wall will be finished. Each topic is discussed by examining specific details and expanded information presented for each.

In addition to Best Practices discussion, the presentation will outline how complex geometries for walls are becoming more of the norm than the exception. This course also has an introduction to design sections with varied structure depths to accommodate commonly found site obstructions, which we are calling Complex Composite Structures (CCS).

Attendees can expect to gain the following skills:

1. Recognize that the local engineer of record must use their best engineering judgment to account for site situations provide a safe and efficient design for the customer.
2. Describe the principles of design guidelines and preconstruction considerations.
3. Review of the principles for typical wall designs.
4. Identify the considerations needed for water management and applications.
5. Describe the proper soil and compaction considerations.
6. Recognize proper geogrid design and orientation.
7. Identify the different design considerations when working on a taller wall project.
8. Identify the considerations for global stability and seismic analysis.
9. Review how the top of the walls are finish will influence the design.
10. Identify what factors may require a design analysis that would follow a Complex Composite Approach when designing an SRW structure.

### **Ideal Attendee**

This course is for the retaining wall engineer who is not new to working on SRW designs, since the attendee of this course should be familiar with the basic principles of how SRW's function. Open discussions will build off of the attendees experience and knowledge. Additionally, this course is useful for building officials, inspectors and architects who require increased technical knowledge about SRW's, but are familiar with the design concepts.

### **Requirements for Successful Completion**

1. Attendance for entire course
  2. Completion of the End-of-Course Assessment
- \*IACET CEU's awarded upon successful completion = 0.1