

Segmental Bridge Construction Three Part Webinar Series

July 1, 8, and 15, 2020

In this webinar series, participants will receive in-depth instruction on precast and cast-in-place concrete segmental bridge construction. This learning opportunity is a companion to our recently updated Construction Practices Handbook for Concrete Segmental and Cable-Supported Bridges.

The first session provides an introduction and overview of the segmental construction methods. The second session goes into more advanced concepts including production, handling, transportation, and erection of precast segments. In addition, advanced concepts around segmental geometry control, post-tensioning details and QC/QA inspection will be covered. We conclude the series with project examples. In this session we tie everything together with in-depth studies of two recent projects, one using precast span-by-span construction and the other using cast-in-place balanced cantilever construction.

Participants will receive a much deeper understanding of the technical aspects of concrete segmental construction methods.

July 1 1:00 p.m.—3:00 p.m. EDT	Session 1—Introduction
1:00 —1:05	WELCOME AND COURSE INTRODUCTION
1:05 —1:30	MODULE 1—SEGMENTAL OVERVIEW
1:30—2:15	MODULE 2—CAST-IN-PLACE SEGMENTAL CONSTRUCTION
2:15—3:00	MODULE 3—PRECAST SEGMENTAL CONSTRUCTION SPAN-BY-SPAN ERECTION BALANCED CANTILEVER ERECTION
July 8 1:00 p.m.—3:00 p.m. EDT	Session 2—Advanced Concepts
1:00 —2:00	MODULE 4—PRECAST SEGMENTAL CONSTRUCTION (CONTINUED) PRODUCTION OF PRECAST SEGMENTS EQUIPMENT FOR HANDLING, TRANSPORTING AND ERECTING PRECAST SEGMENTAL BRIDGES
2:00 —3:00	MODULE 5—SEGMENTAL DETAILS GEOMETRY CONTROL POST-TENSIONING DETAILS INSPECTION—QC/QA
July 15 1:00 p.m.—3:00 p.m. EDT	Session 3—Project Examples
1:00 —2:00	I-59/I-29 BRIDGE REPLACEMENT 20/180 (PRECAST SPAN-BY-SPAN)
2:00 —3:00	CANADIAN RIVER BRIDGE (CAST-IN-PLACE BALANCED CANTILEVER)

Professional Engineering Development Hours

Participants will receive a certificate of completion for 6 professional development hours certified by Registered Continuing Education Program (RCEP) only if all 3 sessions are completed.