



16-Hour Structural Engineering (SE) Practice Exam for Buildings

By Joseph S. Schuster PE

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16-Hour Structural Engineering (SE) Practice Exam for Buildings is a complete, 16-hour practice exam that prepares you for the Structural SE exam. It mimics the SE exam in terms of topics covered, problem level of difficulty, codes and standards referenced, and overall exam format. Like the SE exam, both the vertical and lateral components are organized into a morning breadth and an afternoon depth module. Each breadth module contains 40 multiple-choice problems, and each depth module contains 4 essay response problems, for a total of 88 exam-like problems. Completing the problems within each module's allotted four hours will prepare you for the SE exam's pace and duration.

Comprehensive step-by-step solutions for all problems illustrate accurate and efficient solving methods. The multiple-choice breadth modules also include complete answer keys so you can quickly determine a problem's correct answer. The essay response afternoon depth modules make use of blue text to call out the text, calculations, and drawings you are expected to include in your exam booklet. Black explanations, calculations, and drawings provide supportive information to further describe a solution's methodology.

Referenced Codes and Standards

- AASHTO LRFD Bridge Design Specifications (AASHTO)
- Building Code Requirements for Masonry Structures (TMS 402)
- Building Code Requirements for Structural Concrete (ACI 318)
- International Building Code (IBC)
- Minimum Design Loads for Buildings and Other Structures (ASCE 7)
- National Design Specification for Wood Construction ASD/LRFD (NDS)
- National Design Specification Supplement, Design Values for Wood Construction (NDS Supp.)
- North American Specification for the Design of Cold-Formed Steel Structural Members (AISI Specification)
- PCI Design Handbook (PCI)
- Seismic Design Manual (Seismic Design Manual)

- Special Design Provisions for Wind and Seismic with Commentary (SDPWS)
- Specification for Masonry Structures (TMS 602)
- Steel Construction Manual (AISC Manual)

Exam Topics Covered

- Structural analysis methods
- Structural design considerations including seismic detailing
- Loads
- Concrete
- Steel
- Wood
- Masonry
- Foundations
- Bridges (multiple-choice questions only)

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