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## CONCRETE CONSTRUCTION EXCLUDING HIGHWAYS, STREETS, AND BRIDGES EXAMINATION

# of Questions	Minimum Passing Score	Time Allowed
50	35 (70%)	120 Minutes

### CONTENT OUTLINE

Content Area	# Items Test
Safety	6
Concrete-Earthwork	3
Concrete	15
Concrete-Reinforcement	10
Concrete-Formwork	12

### EXAMINATION STUDY MATERIALS

The reference materials listed below were used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. Except for Code books, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based only on the edition of the Code book that is listed.

This examination is OPEN book. The following references are allowed in the test room.

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or

<https://www.osha.gov/laws-regs/regulations/standardnumber/1926>

**OR**

Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, [www.psiolinestore.com](http://www.psiolinestore.com), (866) 589-3088

SP-4 Formwork for Concrete, 2014, 8th Edition, David W. Johnston, American Concrete Institute, <https://www.concrete.org/store.aspx>

Design and Control of Concrete Mixtures, 16th Edition, 2016, Steven H. Kosmatka, William C. Panarese, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077-1083, 847-966-6200, <http://members.cement.org/EBiz55/Bookstore/BookstoreHome.aspx>

Sawcutting Joints in Concrete, Bruce A. Suprenant, 1995, Concrete Construction Magazine, (773) 824-2400, [http://www.concreteconstruction.net/Images/Sawcutting%20Joints%20in%20Concrete\\_tcm45-346934.pdf](http://www.concreteconstruction.net/Images/Sawcutting%20Joints%20in%20Concrete_tcm45-346934.pdf)

Sawcutting Concrete Flatwork, Rosalie Johnston, 1994, Concrete Construction Magazine, (773) 824-2400, [http://www.concreteconstruction.net/Images/Saw%20Cutting%20Concrete%20Flatwork\\_tcm45-342760.pdf](http://www.concreteconstruction.net/Images/Saw%20Cutting%20Concrete%20Flatwork_tcm45-342760.pdf)

Taking the Tedium Out of Cutting, 1981, Concrete Construction Magazine, (773) 824-2400, [http://www.concreteconstruction.net/Images/Taking%20the%20Tedium%20Out%20of%20Cutting\\_tcm45-345991.pdf](http://www.concreteconstruction.net/Images/Taking%20the%20Tedium%20Out%20of%20Cutting_tcm45-345991.pdf)

Tips for Cutting Concrete, 1987, Concrete Construction Magazine, (773) 824-2400, [http://www.concreteconstruction.net/Images/Tips%20on%20Cutting%20Concrete\\_tcm45-346570.pdf](http://www.concreteconstruction.net/Images/Tips%20on%20Cutting%20Concrete_tcm45-346570.pdf)

International Building Code, 2018, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, [www.intlcode.org/](http://www.intlcode.org/)

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, **annotated**, and/or indexed prior to the examination session. However, references may not be written in during the examination session. Any candidate caught writing in the references during the examination will have the references confiscated and will be reported to the department. Furthermore, candidates

are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated. References may be tabbed/indexed with permanent tabs only. Temporary tabs, such as Post-It notes, are not allowed and must be removed from the reference before the exam will begin.