

ARIZONA REGISTRAR OF CONTRACTORS

C-11 (CR-11) ELECTRICAL (COMMERCIAL)

SCOPE OF WORK

Installation, alteration, and repair of any wiring, related electrical material and equipment used in the generating, transmitting or utilization of electrical energy less than 600 volts, including all overhead electrical wiring on public right-of-ways for signs and street decorations, and all underground electrical distribution systems of less than 600 volts serving private properties. Installation, alteration, and repair on other than public right-of-ways of all outside, overhead, and underground electrical construction and all wiring in or on any building of less than 600 volts.

*Note: AZ applicants applying for the C-11 or CR-11 Electrical (Commercial) have a choice of trade exams. They can elect to take either the NASCLA Accredited Trade Examination for Electrical Contractors or the AZ ROC Electrical (Commercial) exam. There are differences in these exams. See the PSI CIB for each exam to compare the differences and determine which exam best fits your business needs.

Examination	# of Questions	Minimum Passing Score	Time Allowed
C-11 (Commercial)	110	70%	240 Minutes

CONTENT OUTLINE

Subject Area	# of Items
General Electrical Knowledge	5
Service Feeders and Branch Circuits	13
Grounding and Bonding	13
Conductors and Cables	12
Raceways and Boxes	10
Special Occupancies and Equipment	13
Devices	2
Motors	5
Low Voltage	5
Lighting	3
Illuminated Signs	1
Fire Detection and Alarm Systems	5
Safety	5
Overcurrent Protection	8
Photovoltaics	10

REFERENCE LIST

To find reference materials, you may use the link provided or search for the material online via a search engine such as Google. You may also go to PSI's online store at www.psionlinestore.com.

The reference material listed below was 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.

Candidates may use a silent, nonprinting, non-programmable calculator in the examination center.

The following reference material is allowed in the examination center:

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, 3210 E Tropicana, Las Vegas, NV 89121, (800) 733-9267, www.psionlinestore.com

NFPA 70: National Electrical Code, 2017, National Fire Protection Association, www.nfpa.org

NFPA 72: National Fire Alarm Code - 2016 National Fire Protection Association, www.nfpa.org

*The following reference material **is not** allowed in the examination center:*

Ugly's Electrical References, George V. Hart, 2008, 2011, or 2014 editions, Jones and Bartlett, (800) 832-0034, <http://www.uglys.net>

Photovoltaic Systems, 2010 or 2012, James Dunlap, American Technical Publishers, 800-323-3471, www.atplearning.com

The Easy Guide to Solar Electric Part II Installation Manual, 2001, Adi Pieper

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, highlighting, underlining and/or indexing in the references during the examination will be reported to the Arizona Registrar of Contractors. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. References may be tabbed/indexed with permanent tabs only. (permanent tabs are defined as tabs that would tear the page if removed). Temporary tabs, (defined as Post-It notes, or other tabs that may be removed without tearing the page) are not allowed and must be removed from the reference before the exam will begin. If you are downloading from the Internet, you may bring this reference into the testing center with you as long as it is bound. You can have it spiral bound or you may hole-punch it and put it in a binder.