

COMMONWEALTH OF VIRGINIA

ELECTRONIC/COMMUNICATION SERVICE CONTRACTING EXAMINATION

Scope of Work: Electronic/Communication Service Contracting (Abbr: ESC) means that service which provides for the installation, repair, improvement, or removal of electronic or communications systems annexed to real property including telephone wiring, computer cabling, sound systems, data links, data and network installation, television and cable TV wiring, antenna wiring, and fiber optics installation, all of which operate at 50 volts or less. A firm holding an ESC license is responsible for meeting all applicable tradesman licensure standards. The ELE classification also provides for this function.

# of Questions	Minimum Passing Score	Time Allowed
50	66% (33 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Grounding and Bonding	3
Conductors and Cables	8
Electrical Power Conditioning	4
Electrical and Electronic Knowledge	6
Low Voltage Systems Under 50 Volts	5
TV Systems	3
Sound and Video Systems	5
Raceways and Enclosures	4
Computer and Data Systems	4
Testing Equipment	4
Telephone Systems	4

EXAMINATION REFERENCE MATERIAL

The following is a list of possible reference materials for the examination. The list is given to identify resources and does not constitute an endorsement by PSI or by the Virginia Department of Professional and Occupational Regulation.

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. You can use any edition of references and Code books as they become available. However, for Code questions, the examination will be based only on the edition of the Code book that is listed.

NOTE: All examinations are open-book. You must bring your own references as they are not provided at the test site. No study guides are permitted.

No loose papers or unbound references are permitted. If you download a reference from the Internet, it must be spiral bound or hole-punched and placed in a binder, or stapled in the left-hand corner.

References may be highlighted, underlined, and/or indexed prior to the exam. Reference materials containing any writing will not be allowed into the examination. You may not write in reference materials during the examination session. A candidate caught writing in the references during the examination will have the references confiscated and will be reported to the Department.

References may be tabbed with permanent tabs only. NO REMOVABLE TABS are allowed.

The following list of tabs may be used. These items may be purchased at local office supply stores.

Acceptable Tabs

Avery Swift Tabs Self-Adhesive Permanent Plastic Tabs
Redi-Tag Self-Stick Permanent Adhesive Index Tabs

Unacceptable Tabs

Post-It Index Flags
Post-It Flags

The URL listed for each reference is generated from the most current searches. However, placement of material on websites may be modified resulting in some discrepancies. If you are unable to find the reference under the URL listed, it is recommended that you search online via a search engine (e.g., Google).

- NFPA 70 - National Electrical Code, 2011, National Fire Protection Association, (800) 344-3555, <http://catalog.nfpa.org/NFPA-70-National-Electrical-Code-NEC-Handbook-2011-Edition-P17396.aspx>
- *American Electricians' Handbook*, 16th Edition, 2009, McGraw-Hill, (800) 262-4729, <https://www.amazon.com/American-Electricians-Handbook-Sixteenth-Edition/dp/0071798803>
- *Telecommunications Wiring*, Clyde Herrick, 2001, 3rd Edition, Prentice-Hall PTR, (800) 382-3419, <http://www.mypearsonstore.com/bookstore/telecommunications-wiring-9780130286963>
- *Live Sound Reinforcement: (Mix Pro Audio Series)*, 1st Edition, https://www.amazon.com/Live-Sound-Reinforcement-Mix-Audio/dp/0918371074/ref=mt_paperback?encoding=UTF8&me=
- *Data, Voice, and Video Cabling*, Jim Hayes and Paul Rosenberg, 3rd Edition, Delmar/Thomson Learning, (800) 347-7707, <http://www.delmarlearning.com>
- *Antenna Toolkit*, Joe Carr, 2001, 2nd edition, Butterworth-Heinemann, (800) 545-2522, <http://www.n5dux.com/ham/files/pdf/Antenna%20Toolkit%20-%202nd%20Edition.pdf>