

ARIZONA REGISTRAR OF CONTRACTORS

C-74 (CR-74) BOILERS, STEAMFITTING AND PROCESS PIPING, INCLUDING SOLAR (COMMERCIAL)

SCOPE OF WORK

Installation, alteration, and repair of steam and hot water systems and boilers, including solar. Also included are chimney connections, flues, refractories, burners, piping, fittings, valves, thermal insulation, and accessories; fuel and water lines from the source of supply to boilers; process and specialty piping and related equipment; pneumatic and electrical controls.

If necessary, a new circuit may be added to the existing service panel or sub-panel. Excluded is the installation of a new service panel or sub-panel.

Examination	# of Questions	Minimum Passing Score	Time Allowed
C-74	50	70%	120 Minutes
C-74 Solar	30	70%	75 Minutes

CONTENT OUTLINE FOR C-74

Subject Area	# of Items
Boilers	10
Steam and Hot Water Piping	6
Gas Piping	6
Burners	5
Controls	5
Flues and Vents	4
Sizing and Estimating	4
Testing and Inspection	4
Process Piping	6

REFERENCE LIST FOR C-74

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 <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html>

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 (See order form at the end of the Candidate Information Bulletin.)

International Mechanical Code, 2009, International Code Council, (800) 786-4452, www.iccsafe.org

International Fuel Gas Code, 2009, International Code Council, (800) 786-4452, www.iccsafe.org

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

Low Pressure Boilers, Frederick M. Steingress, Daryl R. Walker, 2009, 3rd Edition, American Technical Publishers, Inc., (800) 323-3471, www.atplearning.com

Modern Hydronic Heating for Residential and Light Commercial Buildings, Second Edition, 2004

IPT's Pipe Trades Handbook, 1991, Robert A. Lee, IPT Publishing & Training, Ltd., <http://pipefitter.com>

CONTENT OUTLINE FOR C-74 SOLAR

Subject Area	# of Items
Collection Loops	5
Components	4
Installation	5
Maintenance	2
Mounting	4
Principles	5
Solar Systems Piping	5

REFERENCE LIST FOR C-74 SOLAR

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

Solar Water and Pool Heating Design and Installation Manual, 2006, Florida Solar Energy Center, 1679 Clearlake Road, Cocoa, FL 32922-5703, (321) 638-1015, www.nabcep.org/wp-content/uploads/2013/08/FSEC_Solar_Water_and_Pool_Heating_Manual.pdf

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.

