

L-37 Plumbing (Commercial)

License Information

Scope – Installation, alteration and repair of all plumbing when performed solely within property lines and not on public easements or right-of-ways, except as hereinafter provided.

Installation, alteration and repair of all piping, fixtures and appliances related to water supply, including pressure vessels and tanks (excluding municipal or related water supply systems); venting and sanitary drainage systems for all fluid, semi-fluid and organic wastes; septic tanks and leaching lines; roof leaders; lawn sprinklers; water conditioning equipment; piping and equipment for swimming pools.

Also included are piping, fixtures, appliances and pressure vessels for manufactured and natural gases, compressed air and vacuum systems, petroleum, fuel oil, non-potable liquids, hot water heating and hot water supply systems operating at pressures not exceeding 30 psig or temperatures not exceeding 220°F; steam heating and steam supply systems not exceeding 15 psig operating pressure; gas or oil fired space heaters and furnaces, excluding duct work. Piping for water cooling systems, excluding the refrigerant piping and equipment. Testing and balancing of hydronics systems.

Sewer, gas and water lines, and connections from structure to the nearest point of public supply or disposal may cross public or private easements or be installed within private easements. Pipe installed across public property may not be increased in size or make any other connection between the point of exit from private property to the point of connection at public supply or disposal. These lines shall not be installed parallel to main lines in public easements or right-of-ways.

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Examination Outline

Closed Book
90 Questions - Four-hour time limit
70% Correct required to pass

Exam Topic	%
General Knowledge	10
Drains, Waste and Sanitary Vents	20
Water Supply Systems	18
Specialty Plumbing Systems	10
Plumbing Fixtures	5
Fire Sprinklers	5
Roof Drain Piping	5
Steam and Hot Water Heating	5
Septic Tank Systems	5
Trenching and Excavation	3
Fuel Gas Systems	12
Safety	2

References

The following references were used to create exam questions but **are not allowed** in the testing center.

1. *State of Arizona OSHA, Safety and Health Standards for the Construction Industry (29 CFR Part 1926)*, 2007, Arizona Industrial Commission, Division of Occupational Safety & Health, Industrial Commission of Arizona, P.O. Box 19070, Phoenix, AZ 85005-9070, www.ica.state.az.us.
2. *International Fuel Gas Code*, 2006, International Code Council, 4051 West Flossmoor Road, country Club Hills, IL 60478-5795, www.iccsafe.org.
3. *International Mechanical Code*, 2006, International Code Council, 4051 West Flossmoor Road, country Club Hills, IL 60478-5795, www.iccsafe.org.
4. *Mathematics for Plumbers and Pipefitters*, Seventh Edition, 2008, Delmar Learning, P.O. Box 6904, Florence, KY 41022, www.delmarlearning.com.
5. *Modern Hydronic Heating for Residential and Light Commercial Buildings*, Second Edition, 2004, Delmar Learning, P.O. Box 6904, Florence, KY 41022, www.delarmlearning.com.
6. *NFPA 13 – Installation of Sprinkler Systems*, 2007 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101, www.nfpa.org.

7. *On-site Wastewater Treatment Facility Provisions in Unified Water Quality Permit Rule, Arizona Administrative Code Title 18, Chapter 9, 2006, Arizona Department of Environmental Quality, 1110 West Washington Street, Phoenix, AZ 85007, www.azdeq.gov.*
8. *Plumbing Design and Installation, Third Edition, 2006, American Technical Publishers (ATP), 1155 West 175th Street, Homewood, IL 60430-4600, www.go2atp.com.*
9. *Turf Irrigation Manual, Fifth Edition, 1994, Telsco Industries – Weathermatic Publications, available from Irrigation Association, 6540 Arlington Boulevard, Falls Church, VA 22042-6638, www.irrigation.org.*
10. *Uniform Plumbing Code, 2006, International Association of Plumbing and Mechanical Officials (IAPMO), 5001 East Philadelphia Street, Ontario, CA 91761-2816, www.iapmo.org.*

For information on how to obtain exam references, please call toll-free 877.624.2562.