

# Department of Human Resources & Examinations

## Louisiana State Licensing Board for Contractors

LSLBC

### 6 Mechanical

*Hydraulic and pneumatic systems, including such components as heating, ventilation, air conditioning, refrigeration, hydronic and steam systems, pressure vessels, plumbing, gas piping, process piping, mechanical equipment, air and process heaters and seals, and air vacuums and filters. A license is required when the value exceeds \$10,000.*

*Mechanical contractors who perform plumbing jobs with a value of over \$10,000 must also possess a Master Plumber License with the State Plumbing Board of Louisiana or subcontract with a licensed master plumber to perform plumbing jobs. Mechanical contractors who perform gas piping jobs for buildings and residences must also possess a Master Gas Fitter's license with the State Plumbing Board of Louisiana or use someone who has a Master Gas Fitter's License to perform gas piping jobs; however, Mechanical contractors may make gas piping connections, disconnections, or reconnections from the outlet side of the appliance shutoff valve to the appliance inlet without a Gas Fitter's License.*

*Mechanical contractors installing, moving, or reinstalling boilers or other pressure vessels may be subject to licensure with the Louisiana Office of State Fire Marshal. May bid, contract and perform any kind of mechanical work without limit anywhere throughout the state. Exempt from any local licensing exam. Local license must still be obtained as required. Employees not required to hold a separate license to perform mechanical work or pull permits. Exempt from all Fire Marshal licensing requirements for piping for fire sprinkler systems.*

# Introduction



Mechanical is a *closed book* examination with 100 multiple-choice questions which are equally weighted. You will have **four hours** to complete this examination.

This bulletin contains only a representative sample of the many good references available on the subject at the time the list was compiled. It is not a comprehensive listing. Please note that it is not necessary to read all of the books in order to pass the examination. Rather, this list is intended to suggest what types of references might be useful in helping to acquire the basic knowledge needed to perform this type of work. Often the best preparation is training through a mentor or through a company or organizational training program, or a higher educational or vocational educational training program, etc., along with actual experience.

We try to keep this list current with books in print, but some books go out of print from time to time. These books may be available in your local library's collection or through the services of Inter-Library Loan. If still in print, these books may also be available through your local bookstore or by contacting the publisher. All references available via the internet are followed by the appropriate website address for obtaining the reference. From time to time, website addresses may change and no longer be available. In such cases, please search for the appropriate new website address or contact the publisher or a library to obtain a copy.

## Content Outline

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Plumbing and Gas Piping	20
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HVAC and Refrigeration Systems	19
Air Distribution Systems and Ventilation	15
Piping Systems and Hydronics (Commercial, Residential and Industrial)	19
Instrumentation (Controls, Balancing)	9
Solar and Alternative-Energy Systems	3

## References

Modern Refrigeration and Air Conditioning: Althouse, A.D. et al; Goodheart Wilcox Publisher, Tinely Park IL.

AHRI Fundamentals of HVAC/R: Stanfield, Carter and Skaves, David: AHRI Air Conditioning, Heating, and Refrigeration Institute; Prentice-Hall, Pearson Education Inc.: Upper Saddle River, NJ; 2010

Trane Air Conditioning Manual: The Trane Company; LA Crosse, WI.

2012 International Mechanical Code: International Code Council; Country Club Hills, L: 2011

Managing the Construction Process: Fourth Edition; Gould, Frederick; Prentice-Hall, Pearson Education, Inc.; Upper Saddle River, NJ; 2011

Solar Water Heating Systems: Fundamentals and Installation, International Pipe Trade Joint Training Committee, Inc. American Technical Publishers; Annapolis, MD; 2013

Basic Plumbing with Illustrations: Revised Edition; Massey, Howard C.; Craftsman Book Company; Carlsbad, CA; 1997

Project Management in Construction: Seventh Edition; Levy, Sidney M.; McGraw-Hill Education; New York; 2018



[www.lslbc.louisiana.gov](http://www.lslbc.louisiana.gov)

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