

TEXAS DEPARTMENT OF LICENSING AND REGULATION

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Commercial Refrigeration - Class B

This is a three (3) hour open book examination. Loose pages or notes will not be allowed into the testing site. Highlighting and tabs are permissible, but no notations or markings will be allowed during the examination.

References

The following reference materials may be purchased directly from the publishers or from any one of numerous book stores located throughout the country. Use the most recent edition available unless otherwise noted below.

Air Conditioning and Refrigeration - ARI 1815 Fort Meyer DR. Arlington, VA 22209

OR

Modern Refrigeration and Air Conditioning - Goodheart and Wilcox - 1996 or 2001 Editions

Uniform Mechanical Code - 2000 Edition, International Association of Plumbing and Mechanical Officials
2001 E. Walnut Drive South, Walnut, CA 91789-1815

OR

International Mechanical Code - 2000 Edition, International Code Council, Inc. and

International Fuel Gas Code - 2000 Edition, International Code Council, Inc.

Pipefitters Handbook - 1967, Industrial Press, 200 Madison Ave. NY, NY 10016

High Pressure Boilers - 1994, American Technical Publishers, Homewood, IL 60430

Low Pressure Boilers - 2001, American Technical Publishers, Homewood, IL 60430

These references are used to answer the Business and Law portions of the examination.

OSHA CFR 1926 Construction Standards 2207 - OSHA Washington, DC

Texas Boiler Law Health and Safety Act, Chapter 755 - State of Texas

Rules of the Texas Department of Licensing and Regulation 16 TAC Chapter 65 - State of Texas

Texas Air Conditioning and Refrigeration Contractors Occupations Code, Chapter 1302 - State of Texas

Rules of the Texas Department of Licensing and Regulation, 16 TAC Chapter 75 - State of Texas

Texas Workers Compensation Act and Rules - State of Texas

Texas Unemployment Compensation Act and Rules - State of Texas

Circular E - Internal Revenue Service

OR

Texas Air Conditioning Contractors Manual - Contractors Institute, Maidens, VA

Texas Business Manual - Contractors Institute, Maidens, VA

Commercial Refrigeration - Class B Content Outline

Topic Area	% of Exam	# of Items
Absorption Systems	1	1
Basic Refrigeration Components Identification and operation of basic systems.	7	7
Boilers and Pressure Vessels Piping, Safety, Installation, and Specific Services.	10	10
Business and Law General Business Practices. Knowledge of Laws other than Construction Codes.	18	18
Combustion Air General Practice and requirements for combustion air to fuel burning equipment.	4	4
Commercial Systems	4	4
Controls and Control Circuits	5	5
Design Responsibility Contractor Responsibility for interface with other systems and building components.	1	1
Equipment Requirements Required Clearances, Access Openings, Mounting Materials and Practices.	10	10
Refrigeration Principles Basic properties and applications of mechanical refrigeration and refrigerants.	8	8
Piping Refrigerant, Process Fluid, Fuel, and Condensate Piping practices and requirements.	4	4
Pressure Relief Protection Locations, Piping, and Practice	3	3
Process Heat Load	3	3
Service/ Troubleshooting/ Startup Diagnostics	10	10
Testing and Inspection of Equipment Pre-Final Inspection Practices	5	5
Ventilation Air Movement, Air Circulation, Fresh Air	3	3
Venting Terminations, Flue Types, Clearances	4	4
TOTAL	100	100