

C-39R Warm Air Heating, Evaporative Cooling and Ventilating (Residential) and L-58 Comfort Heating, Ventilating and Evaporative Cooling (Commercial)

License Information

Scope – Installation, alteration, and repair of warm air heating systems, gas fired furnaces and space heaters, ventilation and evaporative cooling units, or any combination of these.

Systems may include the following areas of work and related equipment; duct work, air filtering devices, pneumatic or electrical controls, control piping, thermal and acoustical insulation, vibration insulation materials and devices, liquid fuel piping and tanks, water and gas piping from service connection to equipment it serves. Testing and balancing of air handling systems.

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.

The trade test is considered equivalent for these classifications and upon passing the CBME and trade exam, either license classification may be applied for without further testing.

Examination Outline

Closed Book

80 Questions - Three-hour time limit
70% Correct required to pass

Exam Topic	%
Warm-Air Heating	25
Ventilation	16
Controls	11
Sizing and Estimating	11
Piping and Tubing	10
Ducts	10
Evaporative Cooling	10
Inspections and Testing	7

References

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

1. *International Fuel Gas Code, 2006*, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, www.iccsafe.org.

2. *International Mechanical Code, 2006*, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, www.iccsafe.org.
3. *Fibrous Glass Duct Construction Standards*, Fifth Edition, 2002, North American Insulation Manufacturers Association (NAIMA), 44 Canal Center Plaza, Suite 310, Alexandria, VA 22314, www.naima.org.
4. *HVAC Systems: Testing, Adjusting and Balancing*, Third Edition, 2002, Sheet Metal and Air Conditioning Contractors National Association (SMACNA), 4201 Lafayette Center Drive, Chantilly, VA 20151, www.smacna.org.
5. *Modern Refrigeration and Air Conditioning*, Eighteenth Edition, 2004, Goodheart-Willcox Company, Inc., 18604 West Creek Drive, Tinley Park, IL 60477-6243, www.g-w.com.
6. *Sheet Metal*, Second Edition, 2006, American Technical Publishers (ATP), 1155 West 175th Street, Homewood, IL 60430-4600, www.go2atp.com.
7. *TRANE Air Conditioning Manual*, Revised Edition, 1996, TRANE Company, c/o Inland Marketing Services, 3030 Airport Road, La Crosse, WI 54603, www.trane.com/bookstore.

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

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