

# C-4 Boilers, Including Solar (Residential)

## License Information

**Scope** – Installation and repair of steam and hot water boilers. 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. This scope includes the C-4R subclassification.

## Examination Outline

### Closed Book

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

Exam Topic	%
Boilers	20
Steam and Hot Water Piping	15
Burners	10
Controls	10
Fuel Gas Piping	10
Flues and Vents	10
Testing and Inspections	10
Sizing and Estimating	10
Solar	5

## 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](http://www.iccsafe.org)
2. *International Mechanical Code*, 2006, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, [www.iccsafe.org](http://www.iccsafe.org).
3. *Low Pressure Boilers*, Second Edition, 2005, American Technical Publishers (ATP), 1155 West 175th Street, Homewood, IL 60430-4600, [www.go2atp.com](http://www.go2atp.com).

4. *Modern Hydronic Heating for Residential and Light Commercial Buildings*, Second Edition, 2004, Delmar Learning, P.O. Box 6904, Florence, KY 41022, [www.delmarlearning.com](http://www.delmarlearning.com).
5. *Residential Oil Burners*, Second Edition, 2001, Delmar Learning, P.O. Box 6904, Florence, KY 41022, [www.delmarlearning.com](http://www.delmarlearning.com).
6. *Uniform Solar Energy Code*, 2006, International Association of Plumbing and Mechanical Officials (IAPMO), 5001 East Philadelphia Street, Ontario, CA 91761-2816, [www.iapmo.org](http://www.iapmo.org).

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

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