

C-9 Concrete (Residential) and L-9 Concrete (Commercial)

Exam Number: 030648
Effective Date: 08/18/08

License Information

C-9 Concrete Scope – Installation and repair of concrete, concrete products, and accessories common to the industry. This scope includes all C-9R subclassifications. Gunite and Shotcrete, Lightweight Concrete, Fence Footings, pre-Cast Concrete, Sawing, Coring, Epoxy Panels and Bonding, Terrazzo.

L-9 Concrete Scope – All work in connection with the processing, proportioning, batching, mixing, conveying, and placing of concrete composed of materials common to the concrete industry, including finishing, coloring, curing, repairing, testing, drilling, sawing, grinding, chipping, and grouting. Placing film barriers, sealing, and waterproofing are included. Construction, centering, and assembling forms, molds, slipforms, and pans. Trenching, excavating, backfilling, and grading in connection with concrete construction. Installation of embedded items essential to or comprising an integral part of the concrete or concrete construction, including reinforcing elements and accessories.

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 - Four-hour time limit

70% Correct required to pass

Exam Topic	%
Estimating/Planning and Specs	12
Layout/Excavation	8
Formwork	21
Reinforcing Steel	18
Batching	14
Pour, Place and Cure	19
Safety	8

References

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

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

2. *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.
3. *Building Code Requirements for Structural Concrete and Commentary - ACI 318-05*, 2005, American Concrete Institute (ACI), P.O. Box 9094, Farmington Hills, MI 48333, www.concrete.org.
4. *Carpentry and Building Construction*, Sixth Edition, 2004, Glencoe Division of McGraw-Hill, Box 543, Blacklick, OH 43004-0544, www.glencoe.com.
5. *Design and Control of Concrete Mixtures*, Fourteenth Edition, 2002, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077, www.cement.org.
6. *Modern Carpentry*, Eleventh Edition, 2008, Goodheart-Willcox Company, 18604 West Creek Drive, Tinley Park, IL 60477-6243, www.g-w.com.
7. *Placing Reinforcing Bars*, Eighth Edition, 2005, Concrete Reinforcing Steel Institute, Distribution Center, 933 North Plum Grove Road, Schaumburg, IL 60173-4758, www.crsi.org.
8. *Principles and Practices of Commercial Construction*, Eighth Edition, 2008, Prentice Hall/Pearson Education, Order Processing Center, P.O. Box 11071, Des Moines, IA 50336-0693, vig.prenhall.com.

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

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