

# C-31a CEMENT CONCRETE CONTRACTOR

## License Information

**Scope** – A cement concrete contractor is authorized to mix aggregates, cement, and water in order to make acceptable concrete; to place and finish concrete including the setting of screeds and forms.

## Examination Outline

### **Closed-Book**

**70 Questions – Two-hour time limit**

**75% Correct Required to Pass**

SUBJECT AREA	# OF QUESTIONS
FORMWORK	15
REINFORCING STEEL	14
POUR, PLACE, AND CURE	14
BATCHING	12
ESTIMATING/PLANS AND SPECIFICATIONS	9
LAYOUT/EXCAVATION	6

## References

*The following references have been used to create exam questions but are NOT allowed in the testing center:*

1. *Carpentry and Building Construction*, Feirer, McGraw-Hill.
2. *Design and Control of Concrete Mixtures*, S. H. Kosmatka and W. C. Panarese, Portland Cement Association.
3. *Uniform Building Code*, Vol. 1, 1997, International Conference of Building Officials.
4. *Placing Reinforcing Bars*, Concrete Reinforcing Steel Institute.
5. *Occupational Safety and Health Administration*, Dept. of Labor (cont'd), 29 CFR, Part 1926, GPO: 1995.
6. *Concrete Construction and Estimating*, Craig Avery.
7. *Principles and Practices of Heavy Construction*, Smith/Andres, Prentice-Hall.

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

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