# C-31a - Cement Concrete Contractor

Exam Number: 111527 Effective Date: 08/01/99 Revised: 12/30/15

### **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

Exam Topic	%
Formwork	15
Reinforcing Steel	14
Pour, Place, and Cure	14
Batching	12
Estimating/Plans and Specifications	9
Layout/Excavation	6

#### References

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

- Carpentry and Building Construction, Feirer, McGraw-Hill.
- 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.
- Occupational Safety and Health Administration, Department of Labor (cont'd), 29 CFR, Part 1926, GPO: 1995.
- Concrete Construction and Estimating, Craig Avery.
- 7. Principle and Practices of Heavy Construction, Smith/Andres, Prentice-Hall.

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

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