



RESIDENTIAL CONTRACTORS CONTRACT ADMINISTRATION EXAMINATION CONTENT INFORMATION

Revised March 2009

The Contract Administration portion of the examination will be administered in the morning on the second day of the examination. The examination will consist of 45 equally weighted questions covering the management and operation activities of a construction company.

You should be prepared to respond to examination questions on any of the content areas listed. Questions asked and content areas tested on previous examinations should not be assumed to be the only possible questions to be asked or content areas to be tested on this examination.

The examination will have questions relating to the following content areas and necessary knowledge for each area includes:

- reading and interpreting plans and specifications
- reading and interpreting codes
- basic mathematics (addition, subtraction, multiplication, division, calculations of area and volume, fractions, decimals, percentages, calculating the sides of triangles, square roots, powers of numbers, and solving simple algebraic equations for unknown variables)

The percentage of questions shown for each content area may vary by as much as plus or minus three (3) percent. Please refer to the Candidate Information Brochure and the Reference List for additional information.

Content Area A **27%** **Preconstruction Activities**

1. Preparing cost-estimates

knowledge of cost-estimates in bidding estimate using take-offs

- knowledge of material estimating and costing
- knowledge of labor estimating and costing
- knowledge of equipment estimating and costing
- knowledge of overhead costs
- knowledge of contract requirements

2. Obtaining and evaluating bids

knowledge of estimates from subcontractors and suppliers
knowledge of unit price and lump sum methods for bids

check bid specifications for completeness

- knowledge of general specifications
- knowledge of plans
- knowledge of site and codes

determine proper bid by calculating margins of profit

- knowledge of calculating profit
- knowledge of fixed and variable costs
- knowledge of profitability break-even point

3. Estimating using systems approach (square foot method)

ability to figure overall job costs

ability to interpret charts for square foot estimating

4. Understanding penalties and contingencies

Content Area B **40%** **Project Contracts**

1. Types of contracts

lump sum

cost plus

guaranteed maximum price

unit cost

2. Form of contract and legal issues

knowledge of general conditions for contracts
knowledge of supplemental general conditions for contracts

knowledge of special conditions for contracts

knowledge of specifications for contracts

knowledge of lien laws

- 3. Developing subcontracts**
 - knowledge of contract law
 - knowledge of work orders
 - knowledge of monitoring subcontracts
 - knowledge of contract documents (e.g., addenda)
- 4. Contract amendments**
 - knowledge of change orders
 - knowledge of authorizations (e.g., field orders)
 - knowledge of change directives
- 5. Payment issues**
 - knowledge of payment methods
 - knowledge of payment procedures
 - knowledge of payment schedules
 - knowledge of schedule of values
 - knowledge of payment for onsite/offsite material storage
 - knowledge of partial release of lien
 - knowledge of interior punch list
- 6. Contract closeout**
 - knowledge of the concept of and what constitutes substantial completion
 - knowledge of release of retainage funds
 - knowledge of warranties
 - knowledge of final release of lien
 - knowledge of final punch lists and their relationship to contract documents

Content Area C **20%**
Obtaining Licenses, Permits and Approvals

- 1. Identifying activities which do and do not require permits**
 - knowledge of licenses required for different work activities
- 2. Obtaining permits**
 - knowledge of local requirements
 - knowledge of kinds available
 - knowledge of permit qualifiers
 - knowledge of exemptions from inspections, permits, and approvals
- 3. Arranging for inspections**
 - knowledge of local requirements
 - knowledge of proper sequence of inspections
 - knowledge of special inspections (e.g., threshold, environmental, plumbing)

Content Area D **13%**
Construction Procedures and Operations

- 1. Construction scheduling**
 - knowledge of follow-up with suppliers (submittals)
 - knowledge of time for architect and engineer to approval submittals
 - knowledge of shipping, scheduling, deliveries, storage, and lead times
 - knowledge of flow charts, Critical Path Method (CPM)
 - knowledge of progress, predictions (i.e., look ahead), deficiencies in scheduling
- 2. Coordinating construction activities**
 - knowledge of subcontractor meetings
 - knowledge of daily logs for subcontractors and contractors
 - knowledge of scheduling personnel and contractors
 - knowledge of scheduling subcontractors and suppliers
 - knowledge of safety meetings
 - knowledge of inventory controls