

COASTAL AND FLOODPLAIN CONSTRUCTION INSPECTOR CONTENT OUTLINE

EXAM ID: C1

- 60 multiple-choice questions
- 2-hour time limit
- Open book

01. GENERAL CONSTRUCTION PROVISIONS

10%

0101 Grade and Structure Elevations

Visually verify that the elevation of grade adjacent to the structure is as specified on approved construction documents. Visually verify floor elevation above adjacent grade is as specified on the approved construction documents. Visually verify vertical elevation of the construction to established grade elevations.

0102 Select Fill

Inspect properly compacted, select fill as specified on the approved construction documents. Verify that structural fill is not used in AV zones.

0103 Location of Construction on Property & Construction Survey

Visually identify the property boundaries and location of the construction on the property as indicated on the approved plans. When specified by the building official, verify that construction is consistent with horizontal and vertical elements of the approved plans, as confirmed by a construction (tie-in) survey.

0104 Deep Foundation Piles

Review the certified pile reports to verify that deep foundation piles are installed to the design depth or to the point of refusal of further penetration, and that wood piles are treated to resist decay.

0105 Shear Walls

Inspect compliance of shear walls to approved construction documents and accepted coastal construction standards for the increased loads of wind and water.

0106 Product Approvals

For all products which require listing or product evaluation reports, verify that installation is in compliance with the listing or product evaluation report.

0107 Slope Stability & Erosion

Verify that construction on sloping property is designed to resist damage from erosion and slides.

0108 Special Inspection

Verify that special inspection documentation is provided.

0109 Corrosion Control

Verify that exposed metal connections are protected against corrosion per the approved construction documents and accepted construction practices.

02. SPECIAL HIGH WIND PROVISIONS AND LOAD PATH CONTINUITY 35%

0201 Load Path & Connections - Foundation to Floor

Verify load-path continuity and inspect installation of connections from the foundation to the floor diaphragm.

0202 Load Path and Connections - Floor to Walls

Verify load-path continuity and inspect installation of connections between the floor diaphragm and the walls.

0203 Load Path and Connections - Between Stories

Verify load-path continuity and inspect installation of connections between stories.

0204 Load Path and Connections - Walls to Roof/Ceiling

Verify load-path continuity and inspect installation of connections between walls and the roof and ceiling diaphragm.

0205 Load Path - Gable End Construction

Verify load-path continuity and inspect installation of connections and lateral bracing of gable end construction.

0206 Structural Hardware and Fasteners

Verify rating and identification of all structural hardware and proper use of fasteners. Verify that nailing equipment used to install structural hardware meets manufacturer's specifications.

0207 Structural Lumber and Pre-engineered Systems

Verify that structural lumber is treated to prevent decay, and complies with manufacturer's specifications for strength when used with the specified hardware. Verify that bracing and installation of pre-engineered framing systems are approved for use in the construction documents, and comply with the profile certificate provided by the manufacturer for installation in high-wind hazard areas.

0208 Windborne Debris Regions

In windborne debris regions, verify that all openings have approved protection from windborne debris, including: windows; doors; garage doors; and skylights. Verify special high-wind or impact-resistant rating of opening protection.

0209 Special High-wind Roofing

Verify that sheathing, underlayment, and shingle fasteners follow manufacturer's recommendations for high-wind installations. Verify that all roof coverings meet relevant ASTM high-wind standards and comply with the approved construction documents. Verify adhesives comply with high-wind standards.

0210 Exterior Sheathing and Wall Coverings

Verify that exterior sheathing and wall coverings and fasteners comply with the approved construction documents and manufacturer's recommendations for high-wind installations.

0211 Soffits, Overhangs

Verify that installation of soffits and overhangs comply with the approved construction documents and to accepted construction practices for high-wind installations.

0212 Structural Design Parameters

Verify correct use of structural design parameters.

03. SPECIAL FLOOD HAZARD AREAS

35%

0301 Substantial Improvement and Damage

Provide substantial damage assessments on behalf of the code official following damage of any origin. Verify that substantial repairs and improvements to property comply with flood-plain management regulations, including the 50% Rule for older construction.

0302 Flood-resistant Materials

Verify use of flood-resistant materials below base flood elevation (BFE).

0303 Exterior Equipment

Verify that utilities and mechanical equipment which are located outside of the structure are installed above the base flood elevation (BFE) or are watertight, and are anchored in accordance with the approved construction documents.

0304 Breakaway Walls

Verify that breakaway walls in AV zones are constructed with approved materials and connections, and in accordance with the approved construction documents.

0305 Flood Vents

Verify that flood vents are installed as specified on the approved construction documents.

0306 Dry Flood-proof Enclosures Below Base Flood Elevation (BFE)

For non-residential construction, where dry flood proofing is specified verify that enclosures below base flood elevation are constructed or installed according to the design.

0307 Flood Resistant Foundation Systems

Inspect compliance of deep-foundation systems in AV zones to approved construction documents and accepted construction practices. Inspect special coastal construction requirements of shallow foundations in zones to approved construction documents and accepted construction practices.

0308 Elevation Certificate

When specified by the building official, verify that an elevation certificate based on finished construction is provided prior to issuance of the certificate of occupancy.

0309 Use of Areas Below the Base Flood Elevation

Verify use of enclosed spaces below the base flood elevation are in accordance with requirements for coastal areas.

04. DETACHED AND ATTACHED ACCESSORY STRUCTURES 10%

0401 Decks and Patios

Verify that construction of building decks and patios are installed in compliance with the approved construction documents, and are structurally independent where required from the building foundation, as required.

0402 Manufactured Housing Foundation and Anchoring Systems

Inspect construction of mandatory foundation systems for installation of manufactured housing for compliance with the approved construction documents. Inspect installation of mandatory structural anchoring systems for manufactured housing for compliance with the approved construction documents.

0403 Accessory Structures

Verify that all accessory structures installed in high-wind zones comply with structural and anchorage requirements of the building code. Verify that all accessory structures in flood hazard areas are elevated and anchored, as required by the building code. Report the presence of any non-permitted accessory structures.

0404 Docks, Wharfs, Piers and Sea Walls and Bulkheads

Verify that construction and repair of boat docks, wharfs and piers comply with the approved construction documents. Inspect construction and repair of sea walls, bulkheads, tie-backs and deadmen in accordance with the approved construction documents.

05. GOVERNMENTAL REGULATIONS 10%

0501 Floodways

Verify that construction does not encroach into floodways unless permitted to assure that this will not increase the level of flooding.

0502 Designated Wetlands

Verify that construction does not encroach into wetlands unless permitted by the appropriate agency.

0503 Coastal Construction Setback/Control Lines

Verify that coastal construction complies with setback (Control Line) requirements.

0504 Administrative

Interpret and apply administrative provisions in coastal areas.