

## Certification: Coastal and Floodplain Construction Inspector



### Exam ID: C1

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

<b>01</b>	<b>General Construction Provisions</b>	<b>10%</b>
0101	<u>Grade and Structure Elevations</u> 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.	2%
0103	<u>Location of Construction on Property and Construction Survey</u> 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.	1%
0104	<u>Deep Foundation Piles</u> 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.	2%
0105	<u>Shear Walls</u> Inspect compliance of shear walls to approved construction documents and accepted coastal construction standards for the increased loads of wind and water.	2%
0106	<u>Product Approvals</u> For all products which require listing or product evaluation reports, verify that installation is in compliance with the listing or product evaluation report.	1%
0109	<u>Corrosion Control</u> Verify that exposed metal connections are protected against corrosion per the approved construction documents and accepted construction practices.	2%
<b>02</b>	<b>Special High-wind Provisions and Load Path Continuity</b>	<b>35%</b>
0201	<u>Load Path and Connections - Foundation to Floor</u> Verify load-path continuity and inspect installation of connections from the foundation to the floor diaphragm.	3%
0202	<u>Load Path and Connections - Floor to Walls</u> Verify load-path continuity and inspect installation of connections between the floor diaphragm and the walls.	2%

0203	<u>Load Path and Connections - Between Stories</u> Verify load-path continuity and inspect installation of connections between stories.	2%
0204	<u>Load Path and Connections - Walls to Roof/Ceiling</u> Verify load-path continuity and inspect installation of connections between walls and the roof and ceiling diaphragm.	3%
0205	<u>Load Path - Gable End Construction</u> Verify load-path continuity and inspect installation of connections and lateral bracing of gable end construction.	2%
0206	<u>Structural Hardware and Fasteners</u> 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.	3%
0207	<u>Structural Lumber and Pre-engineered Systems</u> 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.	2%
0208	<u>Windborne Debris Regions</u> 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.	5%
0209	<u>Special High-wind Roofing</u> 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.	5%
0210	<u>Exterior Sheathing and Wall Coverings</u> Verify that exterior sheathing and wall coverings and fasteners comply with the approved construction documents and manufacturer's recommendations for high-wind installations.	3%
0211	<u>Soffits and Overhangs</u> Verify that installation of soffits and overhangs comply with the approved construction documents and to accepted construction practices for high-wind installations.	2%
0212	<u>Structural Design Parameters</u> Verify correct use of structural design parameters.	3%

<b>03</b>	<b><u>Special Flood Hazard Areas</u></b>	<b>35%</b>
0301	<u>Substantial Improvement and Damage</u> 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.	10%
0302	<u>Flood-resistant Materials</u> Verify use of flood-resistant materials below base flood elevation (BFE).	3%
0303	<u>Exterior Equipment</u> 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.	2%
0304	<u>Breakway Walls</u> Verify that breakaway walls in AV zones are constructed with approved materials and connections, and in accordance with the approved construction documents.	2%
0305	<u>Flood Vents</u> Verify that flood vents are installed as specified on the approved construction documents.	3%
0306	<u>Dry Floodproof Enclosures Below Base Flood Elevation</u> 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.	2%
0307	<u>Flood-resistant Foundation Systems</u> 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.	5%
0308	<u>Elevation Certificate</u> 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.	3%
0309	<u>Use of Areas Below the Base Flood Elevation</u> Verify use of enclosed spaces below the base flood elevation are in accordance with requirements for coastal areas.	5%
<b>04</b>	<b><u>Detached and Attached Accessory Structures</u></b>	<b>10%</b>
0401	<u>Decks and Patios</u> 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.	3%

0402	<u>Manufactured Housing Foundation and Anchoring Systems</u> 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.	2%
0403	<u>Accessory Structures</u> 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.	3%
0404	<u>Docks, Wharfs, Piers, and Sea Walls and Bulkheads</u> 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.	2%
<b>05</b>	<b>Governmental Regulations</b>	<b>10%</b>
0501	<u>Floodways</u> Verify that construction does not encroach into floodways unless permitted to assure that this will not increase the level of flooding.	2%
0502	<u>Designated Wetlands</u> Verify that construction does not encroach into wetlands unless permitted by the appropriate agency.	2%
0503	<u>Coastal Construction Setback/Control Lines</u> Verify that coastal construction complies with setback (Control Line) requirements.	3%
0504	<u>Administrative</u> Interpret and apply administrative provisions in coastal areas.	3%