

## BOABC LEVEL I EXAMINATION

### EXAM CONTENT OUTLINE

The exam is based on the job tasks expressed in terms of a verb or action word describing a part of the work performed by the Level I Building Official. The exam outline is derived from an analysis of the job tasks and is grouped into content areas. The Content Outline shows the number of questions included on the exam for each content area and job task. Questions are referenced to the 2006 British Columbia Building Code.

<b>LEVEL I – BOABC Building Official</b> 4 hours, 125 Items, Open book, 25 Plans Questions		# of Questions
<b>01</b>	<b>General Administrative Requirements (Content Area)</b>	<b>6</b>
0101	<u>Application</u> (Task) Answer general administration questions about the application and interpretation of the <i>British Columbia Building Code</i> and about inspections, plans, specifications and professional design and review.	2
0102.	<u>Materials</u> (Task) Identify the suitability and use of materials according to the listing and labeling and approved installation methods.	2
0103	<u>Structural Requirements</u> (Task) Verify conformance with structural requirements of the code including snow loads, deflections, and foundation conditions.	2
<b>02</b>	<b>Rooms, Spaces, Doors and Windows (Content Area)</b>	<b>5</b>
<b>0201</b>	<u>Room Height</u> (Task) Verify that rooms, including living rooms, kitchens, bedrooms, bathrooms, water-closet rooms, and hallways comply with minimum dimensions, area, and ceiling height.	1
0202	<u>Doors</u> (Task) Verify conformance with code requirements for door location, size, type and installation.	2
0203	<u>Windows and Skylights</u> (Task) Verify that windows and skylights have required areas for light and openable areas, that glazing is correctly installed, and has required glass thickness.	2
		<b>8</b>
<b>03</b>	<b>Means of Egress (Content Area)</b>	
0301	<u>Stairs and Ramps</u> (Task) Verify that stairs and ramps have required tread, width, riser, landing, and headroom dimensions.	4
0302	<u>Handrails and Guardrails</u> (Task) Verify that handrails and guardrails are provided and have the proper dimensions and are installed as required by code.	2
0303	<u>Exiting</u> (Task) Verify that egress doors have correct height, width and proper hardware; that windows intended for use as emergency egress have correct clear opening areas, clear width and sill height and that exits have proper access, signs, lighting, and fire protection.	2
<b>04</b>	<b>Detailed Regulations (Content Area)</b>	<b>12</b>
0401	<u>Fire Protection</u> (Task) Verify that fire separations are located where required and have correct fire-resistance rating and that fire protection of structural members, rating of openings and penetrations, spatial separations between buildings, fire stops, flame spread limits of building materials, and alarm and detection systems comply with code; Verify provisions for fire fighting.	3

0402	<u>Sound Control</u> (Task) Verify compliance with code provisions for sound transmission ratings.	1
0403	<u>Crawl Spaces / Roof Spaces</u> (Task) Verify that crawl spaces have proper access, ventilation, clearance, drainage, ground cover and fire protection. Verify that roof spaces have proper access and ventilation.	1
0404	<u>Electrical Facilities / Plumbing Facilities</u> (Task) Verify that electrical installations are installed according to code provisions and that lighting outlets are provided as required. Verify that required plumbing facilities and a sewage disposal system are installed and that water supply, distribution and water heating are installed properly.	3
0405	<u>Garages and Carports</u> (Task) Verify code compliance for the construction of garages and carports	1
0406	<u>Spatial Separations</u> Verify that the spatial separation for buildings meets code requirements.	3
<b>05</b>	<b>Excavations, Footings and Foundations (Content Area)</b>	<b>13</b>
0501	<u>Excavation</u> (Task) Verify that excavations are of the proper depth and Inspect backfill against foundation and basement walls.	3
0502	<u>Waterproofing and Dampproofing</u> (Task) Verify that the moisture barrier beneath concrete slabs and for foundation and basement walls meets code requirements for waterproofing and dampproofing.	2
0503	<u>Drainage</u> (Task) Verify compliance with code provisions for subsurface and surface drainage.	3
0504	<u>Footings and Foundations</u> (Task) Verify that concrete footings have proper depth, reinforcement (where required), and that concrete has required compressive strength and air content. Verify that wood foundations, where permitted, are properly constructed and protected against termites and decay. Verify proper size, height above grade, reinforcement size, type, and grade of foundations.	4
0505	<u>Slabs-On-Ground</u> (Task) Inspect concrete slabs, verifying proper sizing, placement, and support of welded wire fabric and reinforcing bar, and proper placement/location of control/construction joints.	1
<b>06</b>	<b>Framing</b>	<b>22</b>
0601	<u>Columns</u> (Task) Verify that wood, steel, masonry, and solid concrete columns meet code requirements.	2
0602	<u>General Framing / Framing Members</u> (Task) Inspect foundations, sills, sleepers, trusses, joists and rafters and foundation studs, verifying proper grade, size, bearing, support, span, spacing, blocking, bracing or bridging, and fasteners. Inspect roof, wall and floor framing, verifying proper span, grade, and fasteners. Verify that steel stud wall framing complies with code provisions for size, thickness, fastening and load bearing characteristics.	10
0603	<u>Fastening / Drilling / Notching</u> (Task) Verify that anchor bolts and other structural fasteners are of proper size, spacing, and installation. Ensure the integrity of framing members and beams from any defects, cutting, drilling, or notching.	4
0604	<u>Beams and Lintels</u> (Task) Verify that beams, girders and lintels are of proper grade, size, bearing, support, span, spacing, blocking, and bracing or bridging.	3
0605	<u>Sheathing and Subflooring</u> (Task) Inspect roof, wall and floor sheathing, verifying proper thickness, grade and fastening methods.	3
<b>07</b>	<b>Masonry and Insulating Concrete Form Walls (Content Area)</b>	<b>8</b>

0701	<u>Above-Grade Masonry</u> (Task) Inspect masonry units, verifying required dimensions, minimum thickness, alignment of finished work, joint construction, mortar quality, bonding and tying, lateral support, chases and recesses, and installation of cleanouts where required. Inspect masonry reinforcement, verifying adequate size, grade, and clearances.	2
0702	<u>Chimneys and Flues</u> (Task) Verify that chimneys and flues are of proper construction, that masonry and concrete chimney construction conform to code and that proper clearance from combustible construction is maintained.	2
0703	<u>Fireplaces</u> (Task) Verify that fireplace openings and hearth comply with code requirements, that fireplace walls and liners have the proper dimensions and construction and that a damper is properly installed. Verify clearance of combustible material.	2
0704	<u>Insulating Concrete Form Walls</u> (Task) Inspect insulating concrete form walls for conformance to code provisions.	2
<b>08</b>	<b>Thermal Insulation, Ventilation and Heating (Content Area)</b>	<b>10</b>
0801	<u>Insulation</u> (Task) Inspect wall, ceiling, and floor insulation, verifying correct flame-spread rating, and correct placement of vapour barrier.	2
0802	<u>Ventilation</u> (Task) Verify that requirements for natural and mechanical ventilation are met.	6
0803	<u>Heating and Air Conditioning</u> (Task) Verify the installation of adequate heating facilities fire protection requirements for gas and electric ranges.	2
<b>09</b>	<b>Exterior Finish (Content Area)</b>	<b>11</b>
0901	<u>Roofing</u> (Task) Verify the proper use of roofing materials appropriate to the type of roof, flashing, eave protection, roof underlay, and the proper application of cedar and shake shingles. Verify that build-up roofs comply with code requirements.	2
0902	<u>Siding</u> (Task) Inspect exterior wall and roof siding, verifying proper application and attachment appropriate for the type of siding and flashing.	4
0903	<u>Stucco</u> (Task) Verify that proper stucco materials and lath and reinforcing materials are used, that lath and reinforcing are properly fastened and that the stucco application meets code requirements.	1
0904	<u>Protection from Precipitation (Rain)</u> (Task) Verify that the exterior assembly, including flashing, the exterior cladding, capillary break, first and second plane of protection are provided, including checking the provision for the moisture index when appropriate.	4
<b>10</b>	<b>Interior Finish (Content Area)</b>	<b>5</b>
1001	<u>Wall and Ceiling</u> (Task) Inspect interior plastering, sheathing, wallboard, plywood and hardwood finish, fibreboard finish, particleboard and waferboard finish, and wall tile, verifying correct type and thickness, and correct size, type, and location of fasteners.	3
1002	<u>Flooring</u> (Task) Inspect floor underlay, wood strip flooring, parquet flooring resilient flooring and ceramic tile, verifying correct type, thickness, size, and fastening.	2
	<b>Plans Reading (Content Area) (25 Questions, Part of the 4-hour time limit)</b>	
<b>11</b>	<b>Doors and Windows</b>	<b>2</b>
1101	Doors	1
1102	Windows	1

<b>12</b>	<b>Means of Egress</b>	
1201	Handrails and Guardrails	<b>2</b>
1202	Stairs	1
		1
<b>13</b>	<b>Detailed Regulations</b>	<b>2</b>
1301	Fire Protection	1
1302	Crawl and Roof Spaces	1
<b>14</b>	<b>Footings / Foundations</b>	<b>4</b>
1401	Footings / Foundations	1
1402	Drainage	1
1403	Slab-on-ground	1
1404	Waterproof / Dampproof	1
<b>15</b>	<b>Framing</b>	<b>5</b>
1501	General Framing	3
1502	Columns	1
1503	Drilling / Notching	1
<b>16</b>	<b>Masonry</b>	<b>3</b>
1601	Fireplaces	1
1602	Chimneys / Flues	2
<b>17</b>	<b>Insulation / Ventilation</b>	<b>2</b>
1701	Insulation	1
1702	Ventilation	1
<b>18</b>	<b>Exterior Finish</b>	<b>2</b>
1801	Siding	1
1802	Roofing	1
<b>19</b>	<b>Interior Finish</b>	<b>3</b>
1901	Walls and Ceilings	2
1902	Flooring	1