



SBOA Certification Exam Content Outlines

All questions are based on the National Building Code (NBC) 2020. Building Code references are from Division B unless noted otherwise and provide the numbering of the Section or Subsection that is referenced.

SBOA Level 1 – Exam 1 – Building Envelope Exam Content Outline

2 hour time limit, 50 multiple choice questions, open book

Questions for tasks that are shaded appear on Level 1, Exam 2 – Health and Safety.

Code Ref.	Description	# of Questions
General Administrative Requirements		3
1.3, Div. A	Application Answer general administration questions about the application and interpretation of the code, inspections, plans, specifications, professional design and review.	1
9.3	Materials Identify the suitability and use of materials according to the listing and labeling and approved installation methods.	1
9.4	Structural Requirements Verify conformance with structural requirements including snow loads, deflections, and foundation conditions.	1
Rooms, Spaces, Doors and Windows		2
	Room Height Verify that rooms; living rooms, kitchens, bedrooms, bathrooms, water closet rooms, and hallways comply with minimum dimensions, area and ceiling height requirements.	
9.5	Doors Verify conformance with Code requirements for door location, size, type and installation.	1
9.7	Windows and Skylights Verify that windows and skylights have required areas for light and openable areas, that glazing is correctly installed, and has required glass thickness.	1
Means of Egress		0
	Stairs and Ramps, Handrails and Guards Verify that stairs and ramps have required tread, width, riser, landing and headroom dimensions. Verify that handrails and guards are provided and have the proper dimensions and comply with Code requirements.	
	Exiting 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.	

Design of Areas and Spaces		5
	<p>Fire Protection Verify Code compliance: fire separations located where required and have correct fire-resistance rating, fire protection of structural members, rating of openings and penetrations, fire stops, flame-spread limits of building materials, alarm & detection systems & fire fighting provisions</p>	
	<p>Sound Control Verify Code compliance for sound transmission ratings.</p>	
9.18 9.19	<p>Crawl Spaces/ Roof Spaces Verify crawl spaces have proper access, ventilation, clearance, drainage, ground cover and fire protection and roof spaces have proper access and ventilation.</p>	2
	<p>Electrical Facilities/ Plumbing Facilities 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.</p>	
9.35	<p>Garages and Carports Verify Code compliance for the construction of garages and carports.</p>	1
9.10.14, 9.10.15	<p>Spatial Separations Verify that the spatial separation between buildings meets Code requirements.</p>	2
Excavations, Footings and Foundations		9
9.12	<p>Excavation Verify excavations are of the proper depth and inspect backfill against foundation and basement walls.</p>	1
9.13	<p>Waterproofing and Dampproofing Verify that the moisture barrier beneath concrete slabs and for foundation and basement walls meets Code requirements for waterproofing and dampproofing.</p>	1
9.14	<p>Drainage Verify compliance with Code provisions for subsurface and surface drainage.</p>	2
9.15	<p>Footings and Foundations 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.</p>	4
9.16	<p>Slabs-On-Ground Inspect concrete slabs, verifying proper sizing, placement and support of welded wire fabric and reinforcing bars, and proper placement/location of control/construction joints.</p>	1
Framing		13
9.17	<p>Columns Verify that wood, steel, masonry, and solid concrete columns meet Code requirements.</p>	2
9.23	<p>Framing – Wood 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 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.</p>	10

	Verify that beams, girders and lintels are of proper grade, size, bearing, support, span, spacing, blocking/bracing/bridging. Inspect roof, wall and floor sheathing, verifying proper thickness, grade and fastening methods.	
9.24	Framing – Steel Verify that steel stud wall framing complies with Code provisions for size, thickness, fastening characteristics.	1
Masonry and Insulating Concrete Form Walls		5
9.20	Above-Grade Masonry 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
9.21, 9.22	Chimneys and Flues 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
9.20.17	Insulating Concrete Form Walls Inspect insulating concrete form walls for conformance to Code provisions.	1
Thermal Insulation, Ventilation and Heating		6
9.25	Insulation Inspect wall, ceiling and floor insulation, verifying correct flame-spread rating, and correct placement of vapour barrier.	3
9.32	Ventilation Verify that requirements for natural and mechanical ventilation are met.	3
	Heating and Air Conditioning Verify installation of adequate heating facilities and fire protection requirements for heating appliances.	
Exterior Finish		5
9.26	Roofing Verify the proper use of roofing materials appropriate to the type of roof, flashing, eave protection, roof underlay, proper application of cedar and shake shingles, and built-up roofs.	2
9.27, 9.28	Siding and Cladding Inspect exterior wall and roof siding, verifying proper application and attachment appropriate for the type of siding and flashing. 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.	2
9.27.2	Protection from Precipitation (Rain) 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.	1
Interior Finish		0
	Wall and Ceiling 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.	
Energy Efficiency		2
9.36	Verify that the energy efficiency requirements in Section 9.36 are met.	2
Total		50

SBOA Level 1 – Exam 2 – Health and Safety Exam Content Outline

2 hour time limit, 50 multiple choice questions, open book

Questions for tasks that are shaded appear on Level 1, Exam 1 – Building Envelope.

Code Ref.	Description	# of Questions
General Administrative Requirements		3
1.3, Div. A	Application Answer general administration questions about the application and interpretation of the code, inspections, plans, specifications, professional design and review.	1
9.3	Materials Identify the suitability and use of materials according to the listing and labeling and approved installation methods.	1
9.4	Structural Requirements Verify conformance with structural requirements including snow loads, deflections, and foundation conditions.	1
Rooms, Spaces, Doors and Windows		3
9.5	Room Height Verify that rooms; living rooms, kitchens, bedrooms, bathrooms, water-closet rooms, and hallways comply with minimum dimensions, area and ceiling height requirements.	1
9.5	Doors Verify conformance with Code requirements for door location, size, type and installation.	1
9.7	Windows and Skylights Verify that windows and skylights have required areas for light and openable areas, that glazing is correctly installed, and has required glass thickness.	1
Means of Egress		13
9.8	Stairs and Ramps, Handrails and Guards Verify that stairs and ramps have required tread, width, riser, landing and headroom dimensions. Verify that handrails and guards are provided and have the proper dimensions and comply with Code requirements.	10
9.9.6, 9.9.9, 9.9.10	Exiting 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.	3
Design of Areas and Spaces		11
9.10.16, 9.10.19, 9.10.22	Fire Protection Verify Code compliance: fire separations located where required and have correct fire-resistance rating, fire protection of structural members, rating of openings and penetrations, fire stops, flame-spread limits of building materials, alarm & detection systems & fire fighting provisions	3
9.11	Sound Control Verify Code compliance for sound transmission ratings.	1
9.18 9.19	Crawl Spaces/ Roof Spaces Verify crawl spaces have proper access, ventilation, clearance, drainage, ground cover and fire protection and roof spaces have proper access and ventilation.	2
9.31, 9.34	Electrical Facilities/ Plumbing Facilities 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.	2

9.35	Garages and Carports Verify Code compliance for the construction of garages and carports.	1
9.10.14, 9.10.15	Spatial Separations Verify that the spatial separation between buildings meets Code requirements.	2
Excavations, Footings and Foundations		0
	Excavation Verify excavations are of the proper depth and inspect backfill against foundation and basement walls.	
	Waterproofing and Dampproofing Verify that the moisture barrier beneath concrete slabs and for foundation and basement walls meets Code requirements for waterproofing and dampproofing.	
	Drainage Verify compliance with Code provisions for subsurface and surface drainage.	
	Footings and Foundations 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.	
	Slabs-On-Ground Inspect concrete slabs, verifying proper sizing, placement and support of welded wire fabric and reinforcing bars, and proper placement/location of control/construction joints.	
Framing		0
	Columns Verify that wood, steel, masonry, and solid concrete columns meet Code requirements.	
	Framing – Wood 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 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. Verify that beams, girders and lintels are of proper grade, size, bearing, support, span, spacing, blocking/bracing/bridging. Inspect roof, wall and floor sheathing, verifying proper thickness, grade and fastening methods.	
	Framing – Steel Verify that steel stud wall framing complies with Code provisions for size, thickness, fastening characteristics.	
Masonry and Insulating Concrete Form Walls		1
	Above-Grade Masonry 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.	
	Chimneys and Flues 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.	

9.20.17	Insulating Concrete Form Walls Inspect insulating concrete form walls for conformance to Code provisions.	1
Thermal Insulation, Ventilation and Heating		12
9.25	Insulation Inspect wall, ceiling and floor insulation, verifying correct flame-spread rating, and correct placement of vapour barrier.	4
9.32	Ventilation Verify that requirements for natural and mechanical ventilation are met.	5
9.33	Heating and Air Conditioning Verify installation of adequate heating facilities and fire protection requirements for heating appliances.	3
Exterior Finish		0
	Roofing Verify the proper use of roofing materials appropriate to the type of roof, flashing, eave protection, roof underlay, proper application of cedar and shake shingles, and built-up roofs.	
	Siding and Cladding Inspect exterior wall and roof siding, verifying proper application and attachment appropriate for the type of siding and flashing. 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.	
	Protection from Precipitation (Rain) 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.	
Interior Finish		4
9.29, 9.30	Wall and Ceiling 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.	4
Energy Efficiency		3
9.36	Verify that the energy efficiency requirements in Section 9.36 are met.	3
Total		50

SBOA Level 2 – Exam 3 – HVAC and Fire Protection Exam Content Outline

2 hour time limit, 50 multiple choice questions, open book

Questions for tasks that are shaded appear on Level 2, Exam 4 – Structural.

Code Ref.	Description	# of Questions
General Administrative Requirements		3
Div. A	Application Answer general administration questions about the application and interpretation of the code, inspections, plans, specifications, professional design and review.	1
9.3	Materials Identify the suitability and use of materials according to the listing and labeling and approved installation methods.	2
	Structural Requirements Verify conformance with structural requirements including snow loads, deflections, and foundation conditions.	
Rooms, Spaces, Doors and Windows		4
9.5	Room Height Verify that rooms; living rooms, kitchens, bedrooms, bathrooms, water-closet rooms, and hallways comply with minimum dimensions, area and ceiling height requirements.	1
9.5	Doors Verify conformance with Code requirements for door location, size, type and installation.	1
9.7	Windows and Skylights Verify that windows and skylights have required areas for light and openable areas, that glazing is correctly installed, and has required glass thickness.	2
Means of Egress		18
9.8	Stairs and Ramps, Handrails and Guards Verify that stairs and ramps have required tread, width, riser, landing and headroom dimensions. Verify that handrails and guards are provided and have the proper dimensions and comply with Code requirements.	7
9.9	Exiting 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.	11
Fire Protection		18
9.10	Fire Protection Occupancy classification, fire-resistance rating, fire protection/fire separation, firewalls, fire protection of means of egress, interconnected floor areas, building size determination/mezzanines, spatial separations, alarm systems	18
Excavations, Footings and Foundations		0
	Excavation Verify excavations are of the proper depth and inspect backfill against foundation and basement walls.	
	Waterproofing and Dampproofing Verify that the moisture barrier beneath concrete slabs and for foundation and basement walls meets Code requirements for waterproofing and dampproofing.	
	Drainage Verify compliance with Code provisions for subsurface and surface drainage.	
	Footings and Foundations	

	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.	
	Slabs-On-Ground Inspect concrete slabs, verifying proper sizing, placement and support of welded wire fabric and reinforcing bars, and proper placement/location of control/construction joints.	
Framing		0
	Columns Verify that wood, steel, masonry, and solid concrete columns meet Code requirements.	
	Framing – Wood 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 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. Verify that beams, girders and lintels are of proper grade, size, bearing, support, span, spacing, blocking/bracing/bridging. Inspect roof, wall and floor sheathing, verifying proper thickness, grade and fastening methods.	
	Framing – Steel Verify that steel stud wall framing complies with Code provisions for size, thickness, fastening characteristics.	
Masonry and Insulating Concrete Form Walls		0
	Above-Grade Masonry 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.	
	Chimneys and Flues 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.	
	Insulating Concrete Form Walls Inspect insulating concrete form walls for conformance to Code provisions.	
Health, Safety and Comfort		7
	Insulation Inspect wall, ceiling and floor insulation, verifying correct flame-spread rating, and correct placement of vapour barrier.	
9.32	Ventilation Verify that requirements for natural and mechanical ventilation are met.	1
9.33	Heating and Air Conditioning Verify installation of adequate heating facilities and fire protection requirements for heating appliances.	1
9.25	Heat Transfer, Air Leakage, Condensation, Control Verify that wall, ceiling and floor insulation, and correct placement of air and vapour barriers meet Code requirements.	2

9.11	Sound Control Verify compliance with Code provisions for sound transmission ratings.	1
9.18, 9.19	Crawl Spaces/ Roof Spaces Verify that crawl spaces have proper access, ventilation, clearance, drainage, ground cover and fire protection. Verify that roof spaces have proper access, ventilation and fire protection.	2
Exterior Finish		0
	Roofing Verify the proper use of roofing materials appropriate to the type of roof, flashing, eave protection, roof underlay, proper application of cedar and shake shingles, and built-up roofs.	
	Siding and Cladding Inspect exterior wall and roof siding, verifying proper application and attachment appropriate for the type of cladding and flashing.	
Interior Finish		0
	Interior Walls, Ceilings, and Floors 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.	
Energy Efficiency		0
	Verify that the energy efficiency requirements in Section 9.36 are met.	
Total		50

SBOA Level 2 – Exam 4 – Structural Exam Content Outline

2 hour time limit, 50 multiple choice questions, open book

Questions for tasks that are shaded appear on Level 2, Exam 3 – HVAC and Fire Protection.

Code Ref.	Description	# of Questions
General Administrative Requirements		3
Div. A	Application Answer general administration questions about the application and interpretation of the code, inspections, plans, specifications, professional design and review.	1
9.3	Materials Identify the suitability and use of materials according to the listing and labeling and approved installation methods.	1
9.4	Structural Requirements Verify conformance with structural requirements including snow loads, deflections, and foundation conditions.	1
Rooms, Spaces, Doors and Windows		0
	Room Height Verify that rooms; living rooms, kitchens, bedrooms, bathrooms, water-closet rooms, and hallways comply with minimum dimensions, area and ceiling height requirements.	
	Doors Verify conformance with Code requirements for door location, size, type and installation.	
	Windows and Skylights Verify that windows and skylights have required areas for light and openable areas, that glazing is correctly installed, and has required glass thickness.	
Means of Egress		0
	Stairs and Ramps, Handrails and Guards Verify that stairs and ramps have required tread, width, riser, landing and headroom dimensions. Verify that handrails and guards are provided and have the proper dimensions and comply with Code requirements.	
	Exiting 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.	
Fire Protection		0
	Fire Protection Occupancy classification, fire-resistance rating, fire protection/fire separation, firewalls, fire protection of means of egress, interconnected floor areas, building size determination/mezzanines, spatial separations, alarm systems	
Excavations, Footings and Foundations		17
9.12	Excavation Verify excavations are of the proper depth and inspect backfill against foundation and basement walls.	2
9.13	Waterproofing and Dampproofing Verify that the moisture barrier beneath concrete slabs and for foundation and basement walls meets Code requirements for waterproofing and dampproofing.	3
9.14	Drainage Verify compliance with Code provisions for subsurface and surface drainage.	2
9.15	Footings and Foundations	8

	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.	
9.16	Slabs-On-Ground Inspect concrete slabs, verifying proper sizing, placement and support of welded wire fabric and reinforcing bars, and proper placement/location of control/construction joints.	2
Framing		19
9.17	Columns Verify that wood, steel, masonry, and solid concrete columns meet Code requirements.	3
9.23	Framing – Wood 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 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. Verify that beams, girders and lintels are of proper grade, size, bearing, support, span, spacing, blocking/bracing/bridging. Inspect roof, wall and floor sheathing, verifying proper thickness, grade and fastening methods.	13
9.24	Framing – Steel Verify that steel stud wall framing complies with Code provisions for size, thickness, fastening characteristics.	3
Masonry and Insulating Concrete Form Walls		4
9.20	Above-Grade Masonry 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.	1
9.21, 9.22	Chimneys and Flues 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
9.20.17	Insulating Concrete Form Walls Inspect insulating concrete form walls for conformance to Code provisions.	1
Health, Safety and Comfort		0
	Insulation Inspect wall, ceiling and floor insulation, verifying correct flame-spread rating, and correct placement of vapour barrier.	
	Ventilation Verify that requirements for natural and mechanical ventilation are met.	
	Heating and Air Conditioning Verify installation of adequate heating facilities and fire protection requirements for heating appliances.	
	Heat Transfer, Air Leakage, Condensation, Control Verify that wall, ceiling and floor insulation, and correct placement of air and vapour barriers meet Code requirements.	

	Sound Control Verify compliance with Code provisions for sound transmission ratings.	
	Crawl Spaces/ Roof Spaces Verify that crawl spaces have proper access, ventilation, clearance, drainage, ground cover and fire protection. Verify that roof spaces have proper access, ventilation and fire protection.	
Exterior Finish		4
9.26	Roofing Verify the proper use of roofing materials appropriate to the type of roof, flashing, eave protection, roof underlay, proper application of cedar and shake shingles, and built-up roofs.	2
9.27, 9.28	Siding and Cladding Inspect exterior wall and roof siding, verifying proper application and attachment appropriate for the type of cladding and flashing.	2
Interior Finish		3
9.29, 9.30	Interior Walls, Ceilings, and Floors 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
Energy Efficiency		0
	Verify that the energy efficiency requirements in Section 9.36 are met.	
Total		50

SBOA Level 2 – Exam 5 – Plan Review Exam Content Outline

2 hour time limit, 50 multiple choice questions, open book

Code Ref.	Description	# of Questions
General Administrative Requirements		2
Div. A, Div. C	Application Answer general administration questions about the application and interpretation of the code, inspections, plans, specifications, professional design and review.	2
	Materials Identify the suitability and use of materials according to the listing and labeling and approved installation methods.	
	Structural Requirements Verify conformance with structural requirements including snow loads, deflections, and foundation conditions.	
Rooms, Spaces, Doors and Windows		3
9.5	Room Height Verify that rooms; living rooms, kitchens, bedrooms, bathrooms, water-closet rooms, and hallways comply with minimum dimensions, area and ceiling height requirements.	1
9.5	Doors Verify conformance with Code requirements for door location, size, type and installation.	1
9.7	Windows and Skylights Verify that windows and skylights have required areas for light and openable areas, that glazing is correctly installed, and has required glass thickness.	1
Means of Egress		12
9.8	Stairs and Ramps, Handrails and Guards Verify that stairs and ramps have required tread, width, riser, landing and headroom dimensions. Verify that handrails and guards are provided and have the proper dimensions and comply with Code requirements.	4
9.9	Exiting 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.	8
Fire Protection		10
9.10	Fire Protection Occupancy classification, fire-resistance rating, fire protection/fire separation, firewalls, fire protection of means of egress, interconnected floor areas, building size determination/mezzanines, spatial separations, alarm systems	10
Excavations, Footings and Foundations		3
	Excavation Verify excavations are of the proper depth and inspect backfill against foundation and basement walls.	
	Waterproofing and Dampproofing Verify that the moisture barrier beneath concrete slabs and for foundation and basement walls meets Code requirements for waterproofing and dampproofing.	
	Drainage Verify compliance with Code provisions for subsurface and surface drainage.	
9.15	Footings and Foundations Verify that concrete footings have proper depth, reinforcement (where required), and that concrete has required compressive strength and air content. Verify that wood	2

	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.	
9.16	Slabs-On-Ground Inspect concrete slabs, verifying proper sizing, placement and support of welded wire fabric and reinforcing bars, and proper placement/location of control/construction joints.	1
Framing		8
9.17	Columns Verify that wood, steel, masonry, and solid concrete columns meet Code requirements.	1
9.23	Framing – Wood 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 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. Verify that beams, girders and lintels are of proper grade, size, bearing, support, span, spacing, blocking/bracing/bridging. Inspect roof, wall and floor sheathing, verifying proper thickness, grade and fastening methods.	6
9.24	Framing – Steel Verify that steel stud wall framing complies with Code provisions for size, thickness, fastening characteristics.	1
Masonry and Insulating Concrete Form Walls		1
9.20	Above-Grade Masonry 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.	1
	Chimneys and Flues 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.	
	Insulating Concrete Form Walls Inspect insulating concrete form walls for conformance to Code provisions.	
Health, Safety and Comfort		3
9.25	Insulation Inspect wall, ceiling and floor insulation, verifying correct flame-spread rating, and correct placement of vapour barrier.	1
9.32	Ventilation Verify that requirements for natural and mechanical ventilation are met.	1
	Heating and Air Conditioning Verify installation of adequate heating facilities and fire protection requirements for heating appliances.	
	Heat Transfer, Air Leakage, Condensation, Control Verify that wall, ceiling and floor insulation, and correct placement of air and vapour barriers meet Code requirements.	
9.11	Sound Control Verify compliance with Code provisions for sound transmission ratings.	1

	Crawl Spaces/ Roof Spaces Verify that crawl spaces have proper access, ventilation, clearance, drainage, ground cover and fire protection. Verify that roof spaces have proper access, ventilation and fire protection.	
Exterior Finish		3
9.26	Roofing Verify the proper use of roofing materials appropriate to the type of roof, flashing, eave protection, roof underlay, proper application of cedar and shake shingles, and built-up roofs.	1
9.27, 9.28	Siding and Cladding Inspect exterior wall and roof siding, verifying proper application and attachment appropriate for the type of cladding and flashing.	2
Interior Finish		0
	Interior Walls, Ceilings, and Floors 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.	
Energy Efficiency		5
9.36	Verify that the energy efficiency requirements in Section 9.36 are met.	5
Total		50

SBOA Level 3 – Exam 6 – Large Building Health and Safety Exam Content Outline

2 hour time limit, 40 multiple choice questions, open book

Code Ref.	Description	# of Questions
Health Requirements		10
3.7, 3.2.7	Room height, windows, safety glass, plumbing facilities, lighting	
Accessibility		10
3.8	Specific requirements, applications and exemptions, requirements for different occupancies, washrooms	
Environmental Separation		8
Part 5	Environmental separation requirements including heat transfer, air leakage and vapour diffusion, moisture in the ground and surface water, sound transmission class ratings and classification	
HVAC		9
Part 6	Design and installation of HVAC equipment, and chimney and venting equipment	
Service Spaces/ Facilities		3
3.6	Service rooms, vertical service spaces, horizontal service spaces	
Total		40

SBOA Level 3 – Exam 7 – Large Building Classification & Construction Exam Content Outline

2 hour time limit, 50 multiple choice questions, open book

Code Ref.	Description	# of Questions
General Requirements		5
Div. A, Div. C	Code application, definitions, plans, specifications, materials, documents, professional design and review, design requirements	
Building Fire Safety		16
3.2.1, 3.2.2, 3.2.3	General requirements, building classification, spatial separation	
Fire Protection, Occupant Safety		20
3.1, App. D	Building construction, materials, continuity of fire separations, fire dampers, closures, fire-resistance ratings	
Structural Design		9
Part 4	Structural loads, limit state design, dead loads and live loads, foundations, requirements for structural materials and special structures	
Total		50

SBOA Level 3 – Exam 8 – Large Building Plan Review Exam Content Outline

2 hour time limit, 50 multiple choice questions, open book

Code Ref.	Description	# of Questions
Administrative Requirements		2
Div. A, Div. C	Code application, definitions, plans, specifications, materials, documents, professional design and review, design requirements	
General Requirements		10
3.1	Major occupancy identification and separation, occupant load, types of construction, fire separations and closures, fire stops, flame spread rating, smoke development, firewalls, fire resistance ratings	
Building Fire Safety and Classification		13
3.2	Building height, size, spatial separations, fire alarm and detection systems, standpipe and hose systems, sprinkler systems, lighting and emergency power, high buildings, access to storeys, fire department access	
Occupant Safety		8
3.3, 3.9	Safety within floor areas, assembly occupancies, care and detention occupancies, residential occupancies, industrial occupancies	
Exiting		10
3.4	Exit types, number, location & fire escapes, travel distance, distance between exits, exit width, height, capacity, fire separation of exits, exit signs, handrails, guards, stairs and ramps, doors and hardware, emergency access to floor areas/crossover	
Vertical Transportation & Service Facilities		2
3.5, 3.6	Elevators, vertical shafts, service rooms	
Health Requirements and Accessible Design		2
3.7, 3.8	Plumbing facilities, accessible design	
Structural Design		1
Part 4	Structural design	
Environmental Separation		1
Part 5	Heat, air, vapour, moisture, sound transmission	
HVAC		1
Part 6	HVAC design and installation	
Total		50

SBOA Level 3 – Exam 9 – Life Safety Systems Exam Content Outline

2 hour time limit, 50 multiple choice questions, open book

Code Ref.	Description	# of Questions
Safety within Floor Areas		9
3.3.1	Suite separation, means of egress, door requirements, number of egress doorways, corridor requirements, ramps, stairways, exterior passageways, handrails & guards, janitor and laundry rooms	
Assembly Occupancies		7
3.3.2	Fire separations, fixed seats, fixed bench type seats, aisles, doors, corridors, guards, risers for stairs, stages, outdoor places of assembly	
Care and Detention Occupancies		7
3.3.3	Fire separations, doors, corridors, hospitals and nursing homes, areas of refuge, contained use areas	
Residential Occupancies		7
3.3.4	Fire separations, storage rooms, egress	
Industrial Occupancies		6
3.3.5, 3.3.6, 3.9	Repair and storage garages, separations, multiple tenant self storage, vestibules	
Exits		11
3.4	Types, number, location, travel distance, distance between exits, exit width, height, capacity, fire separation of exits, exit signs, handrails and guards, stairs and ramps, doors, door hardware, fire escapes, emergency access to floor areas/crossover	
Vertical Transportation		3
3.5	Standards, fire separations, elevators	
Total		50

SBOA Level 3 – Exam 10 – Fire Protection Exam Content Outline

2 hour time limit, 50 multiple choice questions, open book

Code Ref.	Description	# of Questions
Fire Alarm & Detection Systems		9
3.2.4	Fire alarm requirements, continuity of fire alarm system, types of fire alarms, installation & testing, pull stations, annunciator & zone indication, fire detectors, audibility, visual requirements, voice communications, smoke alarms	
Standpipe and Sprinkler Systems		13
3.2.5	Water supply, general standpipe & sprinkler requirements, hose connections, hose stations, fire department connections	
Lighting and Emergency Power		5
3.2.7	Lighting requirements, emergency lighting, emergency power	
High Buildings		9
3.2.6, A-3.2.6	Application, fire fighters elevators, limits to smoke movement, central alarm and control facility (CACF), venting	
Building Fire Safety		14
3.2.1, 3.2.2, 3.2.8	Exceptions to building height, storage garages, basements and storage below ground, streets, multiple major occupancies, automatic sprinkler systems, construction requirements, interconnected floors, mezzanines	
Total		50