

NBBOA Core Course Curriculum

The Education Committee provides the following core courses and exams which are required to obtain qualification:

Level I

The House Outline

ACBOA Exam 1 BUILDING ENVELOPE**2**

ACBOA Exam 2 HEALTH AND SAFETY.....**5**

Legal

→ NBBOA Legal Exam**

Communications

→ NBBOA Communications Exam**

Level II

Part 9 Small Buildings Outline

→ ACBOA Exam 3 HVAC AND FIRE PROTECTION.....**8**

→ ACBOA Exam 4 STRUCTURAL.....**10**

→ ACBOA Exam 5 PLAN REVIEW.....**14**

Barrier Free Requirements

→ NBBOA Barrier Free**

Level III

Part 3 Large Buildings Outline

→ ACBOA Exam 6*.....**16**

→ ACBOA Exam 7*.....**16**

→ ACBOA Exam 9*.....**18**

Part 3 Complex Buildings Outline

→ ACBOA Exam 8*.....**17**

→ ACBOA Exam 10*.....**19**

*ACBOA exams are provided separately from the course with a cost of \$225 plus tax

** NBBOA Exams are provided on the last day of the course by the NBBOA of no additional charge

ACBOA Level I - EXAM 1 - BUILDING ENVELOPE EXAM CONTENT OUTLINE

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

Level I, Exam 1 - BUILDING ENVELOPE EXAM		# of Questions
Two & half hour time limit, 50 multiple choice questions, open book.		
01	General Administrative Requirements (Content Area)	4
0101	Application (Task Area) Answer general administration questions about the application and interpretation of the code, inspections, plans, specifications, professional design and review.	2
0102	Materials (Task Area) Identify the suitability and use of materials according to the listing and labeling and approved installation methods.	1
0103	Structural Requirements (Task Area) Verify conformance with structural requirements including snow loads, deflections, and foundation conditions.	1
02	Rooms, Spaces, Doors and Windows (Content Area)	3
0201	Room Height (Task Area) Verify that rooms; living rooms, kitchens, bedrooms, bathrooms, water-closet rooms, and hallways comply with minimum dimensions, area and ceiling height requirements.	
0202	Doors (Task Area) Verify conformance with code requirements for door location, size, type and installation	1
0203	Windows and Skylights (Task Area) Verify that windows and skylights have required areas for light and openable areas, that glazing is correctly installed, and has required glass thickness.	2
03	Means of Egress (Content Area)	
0301	Stairs and Ramps (Task Area) Verify that stairs and ramps have required tread, width, riser, landing, and headroom dimensions.	
0302	Handrails and Guards (Task Area) Verify that handrails and guards are provided and have the proper dimensions and comply with code requirements	
0303	Exiting (Task Area) 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.	
04	Design of Areas and Spaces (Content Area)	4
0401	Fire Protection (Task Area) Verify code compliance: fire separations located where required and have correct fire-resistance rating and that fire protection of structural members, rating of openings and penetrations, fire stops, flame spread limits of building materials, alarm & detection systems & fire fighting provisions	
0402	Sound Control (Task Area) Verify code compliance for sound transmission ratings.	
0403	Crawl Spaces / Roof Spaces (Task Area) Verify crawl spaces have proper access, ventilation, clearance, drainage, ground cover and fire protection and roof spaces have proper access and ventilation.	1
0404	Electrical Facilities / Plumbing Facilities (Task Area)	

	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.	
0405	Garages and Carports (Task Area) Verify code compliance for the construction of garages and carports.	1
0406	Spatial Separations (Task Area) Verify that the spatial separation between buildings meets code requirements	2
05	Excavations, Footings and Foundations (Content Area)	10
0501	Excavation (Task Area) Verify excavations are of the proper depth and Inspect backfill against foundation and basement walls	0
0502	Waterproofing and Dampproofing (Task Area) Verify that the moisture barrier beneath concrete slabs and for foundation and basement walls meets code requirements for waterproofing and dampproofing	0
0503	Drainage (Task Area) Verify compliance with code provisions for subsurface and surface drainage	2
0504	Footings and Foundations (Task Area) 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.	6
0505	Slabs-On-Ground (Task Area) Inspect concrete slabs, verifying proper sizing, placement, and support of welded wire fabric and reinforcing bar, and proper placement/location of control/construction joints	2
06	Framing (Content Area)	12
0601	Columns (Task Area) Verify that wood, steel, masonry, and solid concrete columns meet code requirements.	2
0602	General Framing / Framing Members (Task Area) 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.	7
0603	Fastening / Drilling / Notching (Task Area) 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.	1
0604	Beams and Lintels (Task Area) Verify that beams, girders and lintels are of proper grade, size, bearing, support, span, spacing, blocking, and bracing or bridging	1
0605	Sheathing and Subflooring (Task Area) Inspect roof, wall and floor sheathing, verifying proper thickness, grade and fastening methods	1
07	Masonry and Insulating Concrete Form Walls (Content Area)	5
0701	Above-Grade Masonry (Task Area)	2

	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.	
0702	Chimneys and Flues (Task Area) 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	Insulating Concrete Form Walls (Task Area) Inspect insulating concrete form walls for conformance to code provisions.	1
08	Thermal Insulation, Ventilation and Heating (Content Area)	7
0801	Insulation (Task Area) Inspect wall, ceiling, and floor insulation, verifying correct flame-spread rating, and correct placement of vapour barrier.	3
0802	Ventilation (Task Area) Verify that requirements for natural and mechanical ventilation are met.	3
0803	Heating and Air Conditioning (Task Area) Verify installation of adequate heating facilities and fire protection requirements for heating appliances.	1
09	Exterior Finish (Content Area)	5
0901	Roofing (Task Area) 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
0902	Siding and Cladding (Task Area) 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.	3
0903	Protection from Precipitation (Rain) (Task Area) 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.	0
10	Interior Finish (Content Area)	
1001	Wall and Ceiling (Task Area) 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.	
		50

ACBOA Level I - EXAM 2 - HEALTH AND SAFETY EXAM CONTENT OUTLINE

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

Level I, Exam 2 - HEALTH AND SAFETY EXAM Two & half hour limit, 50 multiple choice questions, open book.		# of Questions
01	General Administrative Requirements (Content Area)	6
0101	Application (Task Area) Answer general administration questions about the application and interpretation of the code, inspections, plans, specifications, professional design and review.	3
0102	Materials (Task Area) Identify the suitability and use of materials according to the listing and labeling and approved installation methods.	1
0103	Structural Requirements (Task Area) Verify code compliance of structural requirements including snow loads, deflections, and foundation conditions.	2
02	Rooms, Spaces, Doors and Windows (Content Area)	5
0201	Room Height (Task Area) Verify that rooms; living rooms, kitchens, bedrooms, bathrooms, water-closet rooms, and hallways comply with minimum dimensions, area and ceiling height requirements.	3
0202	Doors (Task Area) Verify conformance with code requirements for door location, size, type and installation	2
0203	Windows and Skylights (Task Area) Verify that windows and skylights have required areas for light and openable areas, that glazing is correctly installed, and has required glass thickness.	
03	Means of Egress (Content Area)	10
0301	Stairs and Ramps (Task Area) Verify that stairs and ramps have required tread, width, riser, landing, and headroom dimensions.	5
0302	Handrails and Guards (Task Area) Verify that handrails and guards are provided and have the proper dimensions and comply with code requirements.	3
0303	Exiting (Task Area) 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
04	Design of Areas and Spaces (Content Area)	14
0401	Fire Protection (Task Area) Verify code compliance: fire separations located where required and have correct fire-resistance rating and that fire protection of structural members, rating of openings and penetrations, fire stops, flame spread limits of building materials, alarm & detection systems & firefighting provisions	6
0402	Sound Control (Task Area) Verify code compliance for sound transmission ratings	
0403	Crawl Spaces / Roof Spaces (Task Area) Verify crawl spaces have proper access, ventilation, clearance, drainage, ground cover and fire protection and roof spaces have proper access and ventilation.	2

0404	Electrical Facilities / Plumbing Facilities (Task Area) 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	Garages and Carports (Task Area) Verify code compliance for the construction of garages and carports.	1
0406	Spatial Separations (Task Area) Verify that the spatial separation between buildings meets code requirements	2
05	Excavations, Footings and Foundations (Content Area)	
0501	Excavation (Task Area) Verify that excavations are of the proper depth and Inspect backfill against foundation and basement walls	
0502	Waterproofing and Dampproofing (Task Area) Verify that the moisture barrier beneath concrete slabs and for foundation and basement walls meets code requirements for waterproofing and dampproofing	
0503	Drainage (Task Area) Verify code compliance for subsurface and surface drainage	
0504	Footings and Foundations (Task Area) 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.	
0505	Slabs-On-Ground (Task Area) Inspect concrete slabs, verifying proper sizing, placement, and support of welded wire fabric and reinforcing bar, and proper placement/location of control/construction joints	
06	Framing (Content Area)	
0601	Columns (Task Area) Verify that wood, steel, masonry, and solid concrete columns meet code requirements	
0602	General Framing / Framing Members (Task Area) 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.	
0603	Fastening / Drilling / Notching (Task Area) 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	
0604	Beams and Lintels (Task Area) Verify that beams, girders, and lintels are of proper grade, size, bearing, support, span, spacing, blocking, and bracing or bridging.	
0605	Sheathing and Subflooring (Task Area) Inspect roof, wall and floor sheathing, verifying proper thickness, grade and fastening methods	

07	Masonry and Insulating Concrete Form Walls (Content Area)	1
0701	Above-Grade Masonry (Task Area) 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	
0702	Chimneys and Flues (Task Area) 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.	
0704	Insulating Concrete Form Walls (Task Area) Inspect insulating concrete form walls for conformance to code provisions.	1
08	Thermal Insulation, Ventilation and Heating (Content Area)	9
0801	Insulation (Task Area) Inspect wall, ceiling, and floor insulation, verifying correct flame-spread rating, and correct placement of vapour barrier	3
0802	Ventilation (Task Area) Verify that requirements for natural and mechanical ventilation are met.	4
0803	Heating (Task Area) Verify the installation of adequate heating facilities and fire protection requirements for heating appliances.	2
09	Exterior Finish (Content Area)	
0901	Roofing (Task Area) 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.	
0902	Siding and Cladding (Task Area) 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.	
0903	Protection from Precipitation (Rain) (Task Area) 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.	
10	Interior Finish (Content Area)	4
1001	Interior Walls, Ceilings, and Floors (Task Area) 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.	5
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ACBOA Level II - EXAM 3 - HVAC AND FIRE PROTECTION EXAM CONTENT OUTLINE

Questions for tasks that are shaded appear on Level II, Exam 4 - Structural.

Level II, Exam 3 – HVAC AND FIRE PROTECTION Two & half hour limit, 50 multiple choice questions, open book.		# of Question s
01	General Administrative Requirements	2
0101	Application Answer general administration questions about the application and interpretation of the code, inspections, plans, specifications, professional design and review.	1
0102	Materials Identify suitability and use of materials according to the listing and labeling and approved installation methods.	1
0103	Structural Requirements Verify conformance with code structural requirements including snow loads, deflections, and foundation conditions.	
02	Rooms, Doors and Windows	4
0201	Room Height Verify that rooms, including living rooms, kitchens, bedrooms, bathrooms, water-closet rooms, and hallways comply with minimum dimensions, area and ceiling height requirements.	1
0202	Exterior Doors Verify conformance with code requirements for door location, size, type and installation	2
0203	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
03	Means of Egress	14
0301	Stairs and Ramps Verify that stairs and ramps have required tread, width, riser, landing and headroom dimensions.	4
0302	Handrails and Guards Verify that handrails & guards are provided & have proper dimensions and are installed as required by code.	3
0303	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.	7
04F	Fire Protection	23
0401F	Occupancy Classification Verify occupancy classification, occupant loads and compliance with code requirements.	3
0402F	Fire-Resistance Rating Verify that fire separations between occupancies have correct fire-resistance rating.	4
0403F	Fire Protection / Fire Separation Verify fire protection of openings, penetrations, fire stops, and flame spread limits of materials.	6
0404F	Fire Walls	1

	Verify that fire walls meet code requirements.	
0405F	Fire Protection of Means of Egress Verify fire protection of Means of egress.	4
0406F	Interconnected Floor Areas Verify fire protection of interconnected floor areas.	1
0407F	Building Size Determination / Mezzanines Verify that building size and mezzanines comply with code provisions.	1
0408F	Spatial Separations Verify that the spatial separation for buildings meets code requirements.	1
0409F	Alarm Systems Verify that alarm and detection systems comply with code; Verify provisions for fire fighting	2
05	Excavations, Footings, Foundations and Grading	1
0501	Excavation Verify that excavations are of the proper depth and Inspect backfill against foundation and basement walls	
0502	Waterproofing and Dampproofing Verify that the moisture barrier beneath concrete slabs and for foundation and basement walls meets code requirements for waterproofing and dampproofing	
0503	Drainage Verify compliance with code provisions for subsurface and surface drainage.	
0504	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.	
0505	Slabs-On-Ground 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
06	Framing	
0601	Columns Verify that wood, steel, masonry, and solid concrete columns meet code requirements.	
0602	General Framing / Framing Members Inspect and verify 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.	
0603	Fastening / Drilling / Notching 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.	
0604	Beams and Lintels Verify that beams, girders and lintels are of proper grade, size, bearing, support, span, spacing, blocking, and bracing or bridging.	
0605	Sheathing and Subflooring Inspect roof, wall and floor sheathing, verifying proper thickness, grade and fastening methods	

07	Masonry and Insulating Concrete Form Walls	
0701	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.	
0702	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.	
0703	Insulating Concrete Form Walls Inspect insulating concrete form walls for conformance to code provisions.	
08	Health, Safety and Comfort	6
0801	Insulation Inspect wall, ceiling, and floor insulation, verifying correct flame-spread rating, and correct placement of vapour barrier.	1
0802	Ventilation Verify that requirements for natural and mechanical ventilation are met.	1
0803	Heating and Air Conditioning Verify the installation of adequate heating facilities and fire protection requirements for gas and electric ranges.	
0804	Heat Transfer, Air Leakage, Condensation Control Verify that wall, ceiling, and floor insulation, and correct placement of air and vapour barriers meet code requirements.	1
0805	Sound Control Verify compliance with code provisions for sound transmission ratings.	1
0806	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 and ventilation and fire protection.	2
09	Exterior Finish	
0901	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.	
0902	Cladding Inspect exterior wall and roof covering, verifying proper application and attachment appropriate for the type of cladding and flashing.	
10	Interior Finish	
1001	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.	
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ACBOA Level II - EXAM 4 - STRUCTURAL EXAM CONTENT OUTLINE

Questions for tasks that are shaded appear on Level II, Exam 3 - HVAC & Fire Protection.

Level II, Exam 4 – STRUCTURAL Two & half hour limit, 50 multiple choice questions, open book.		# of Questions
01	General Administrative Requirements	3
0101	Application Answer general administration questions about the application and interpretation of the code, inspections, plans, specifications, professional design and review.	1
0102	Materials Identify suitability and use of materials according to the listing and labeling and approved installation methods.	1
0103	Structural Requirements Verify conformance with code structural requirements including snow loads, deflections, and foundation conditions.	1
02	Rooms, Doors and Windows	
0201	Room Height Verify that rooms, including living rooms, kitchens, bedrooms, bathrooms, water-closet rooms, and hallways comply with minimum dimensions, area and ceiling height requirements.	
0202	Exterior Doors Verify conformance with code requirements for door location, size, type and installation	
0203	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.	
03	Means of Egress	
0301	Stairs and Ramps Verify that stairs and ramps have required tread, width, riser, landing and headroom dimensions.	
0302	Handrails and Guards Verify that handrails & guards are provided & have proper dimensions and are installed as required by code.	
0303	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.	
04F	Fire Protection	
0401F	Occupancy Classification Verify occupancy classification, occupant loads and compliance with code requirements.	
0402F	Fire-Resistance Rating Verify that fire separations between occupancies have correct fire-resistance rating.	
0403F	Fire Protection / Fire Separation Verify fire protection of openings, penetrations, fire stops, and flame spread limits of materials.	
0404F	Fire Walls Verify that fire walls meet code requirements.	

0405F	Fire Protection of Means of Egress Verify fire protection of Means of egress.	
0406F	Interconnected Floor Areas Verify fire protection of interconnected floor areas.	
0407F	Building Size Determination / Mezzanines Verify that building size and mezzanines comply with code provisions.	
0408F	Spatial Separations Verify that the spatial separation for buildings meets code requirements.	
0409F	Alarm Systems Verify that alarm and detection systems comply with code; Verify provisions for fire fighting	
05	Excavations, Footings, Foundations and Grading	17
0501	Excavation Verify that excavations are of the proper depth and Inspect backfill against foundation and basement walls	2
0502	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
0503	Drainage Verify compliance with code provisions for subsurface and surface drainage.	1
0504	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.	9
0505	Slabs-On-Ground Inspect concrete slabs, verifying proper sizing, placement, and support of welded wire fabric and reinforcing bar, and proper placement/location of control/construction joints	2
06	Framing	20
0601	Columns Verify that wood, steel, masonry, and solid concrete columns meet code requirements.	3
0602	General Framing / Framing Members Inspect and verify 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.	8
0603	Fastening / Drilling / Notching 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.	2
0604	Beams and Lintels Verify that beams, girders and lintels are of proper grade, size, bearing, support, span, spacing, blocking, and bracing or bridging.	4
0605	Sheathing and Subflooring Inspect roof, wall and floor sheathing, verifying proper thickness, grade and fastening methods	3

07	Masonry and Insulating Concrete Form Walls	4
0701	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
0702	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.	1
0703	Insulating Concrete Form Walls Inspect insulating concrete form walls for conformance to code provisions.	2
08	Health, Safety and Comfort	
0801	Insulation Inspect wall, ceiling, and floor insulation, verifying correct flame-spread rating, and correct placement of vapour barrier.	
0802	Ventilation Verify that requirements for natural and mechanical ventilation are met.	
0803	Heating and Air Conditioning Verify the installation of adequate heating facilities and fire protection requirements for gas and electric ranges.	
0804	Heat Transfer, Air Leakage, Condensation Control Verify that wall, ceiling, and floor insulation, and correct placement of air and vapour barriers meet code requirements.	
0805	Sound Control Verify compliance with code provisions for sound transmission ratings.	
0806	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 and ventilation and fire protection.	
09	Exterior Finish	4
0901	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
0902	Cladding Inspect exterior wall and roof covering, verifying proper application and attachment appropriate for the type of cladding and flashing.	2
10	Interior Finish	2
1001	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.	2
		50

ACBOA Level II - EXAM 5 - PLAN REVIEW EXAM CONTENT OUTLINE

Level II, Exam 5 – PLAN REVIEW Two & half hour limit, 50 multiple choice questions, open book.		# of Questions
01	General Administrative Requirements	1
0101	Application Answer general administration questions about the application and interpretation of the code, inspections, plans, specifications, professional design and review.	1
02	Rooms, Doors and Windows	3
0201	Room Height Verify that rooms, including living rooms, kitchens, bedrooms, bathrooms, water-closet rooms, and hallways comply with minimum dimensions, area and ceiling height requirements.	1
0202	Exterior Doors Verify conformance with code requirements for door location, size, type and installation	1
0203	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
03	Means of Egress	11
0301	Stairs and Ramps Verify that stairs and ramps have required tread, width, riser, landing and headroom dimensions.	2
0302	Handrails and Guards Verify that handrails & guards are provided & have proper dimensions and are installed as required by code.	1
0303	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
04F	Fire Protection	10
0402F	Fire-Resistance Rating Verify that fire separations between occupancies have correct fire-resistance rating.	2
0403F	Fire Protection / Fire Separation Verify fire protection of openings, penetrations, fire stops, and flame spread limits of materials.	3
0404F	Fire Walls Verify that fire walls meet code requirements.	1
0405F	Fire Protection of Means of Egress Verify fire protection of Means of egress.	1
0407F	Building Size Determination / Mezzanines Verify that building size and mezzanines comply with code provisions.	1
0408F	Spatial Separations Verify that the spatial separation for buildings meets code requirements.	1
0409F	Alarm Systems Verify that alarm and detection systems comply with code; Verify provisions for fire fighting	1
05	Excavations, Footings, Foundations and Grading	4

0504	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.	3
0505	Slabs-On-Ground 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
06	Framing	8
0601	Columns Verify that wood, steel, masonry, and solid concrete columns meet code requirements.	1
0602	General Framing / Framing Members Inspect and verify foundations, sills, sleepers, trusses, joists and rafters, 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.	5
0604	Beams and Lintels Verify that beams, girders and lintels are of proper grade, size, bearing, support, span, spacing, blocking, and bracing or bridging.	1
0605	Sheathing and Subflooring Inspect roof, wall and floor sheathing, verifying proper thickness, grade and fastening methods	1
07	Masonry and Insulating Concrete Form Walls	1
0701	Insulating Concrete Form Walls Inspect insulating concrete form assemblies, verifying required dimensions, reinforcement, thicknesses, spacing from corners, reinforcement of openings.	1
08	Health, Safety and Comfort	3
0801	Insulation Inspect wall, ceiling, and floor insulation, verifying correct flame-spread rating, and correct placement of vapour barrier.	1
0802	Ventilation Verify that requirements for natural and mechanical ventilation are met.	1
0805	Sound Control Verify compliance with code provisions for sound transmission ratings.	1
09	Exterior Finish	3
0902	Cladding Inspect exterior wall and roof covering, verifying proper application and attachment appropriate for the type of cladding and flashing.	3
10	Energy Efficiency	6
1001	Energy Efficiency Identify climactic zones and applicable requirements for insulation, verify that windows meet requirements for applicable regions, appliances and controls meet minimum efficiency standards,	6

ACBOA Level III - EXAM 6 - LARGE BUILDING HEALTH and SAFETY

LEVEL III, Exam 6 - LARGE BUILDING HEALTH and SAFETY Two & half hour limit, 40 multiple choice questions, open book.		
	Content Area	Questions
01	Health Requirements Room Height, Windows, Safety Glass, Plumbing Facilities, Lighting, Food Premises.	10
0	Accessible Design Washrooms Water Closet Rooms, Water Closet Compartments, Bath & Shower, Grab Bars	3
03	Accessible Buildings Specific Requirements, Applications, and Exemptions, and Requirements for Different Occupancies	7
04	Environmental Separation Environmental Separation Requirements including Heat Transfer, Air Leakage, and Vapour Diffusion, Moisture in the Ground and Surface Water, and Sound Transmission Ratings & Classification	8
05	HVAC Design and Installation of HVAC equipment and Chimneys and Venting Equipment	10
06	Service Spaces / Facilities Service Rooms, Vertical Service Spaces Horizontal Service Space	2
	Total	40

ACBOA Level III - EXAM 7 - LARGE BUILDING CLASSIFICATION AND CONSTRUCTION

LEVEL III, Exam 7 - LARGE BUILDING CLASSIFICATION AND CONSTRUCTION Two & half hour limit, 50 multiple choice questions, open book.		
	Content Area	Questions
1.	General Requirements Code Application, Definitions, Plans, Specification, Materials, Documents, Professional Design and Review, Design Requirements	9
2.	Classification and Construction Requirements Major Occupancy Identification, Occupant Load, Types of Construction, Building Height, Size, Major Occupancy Separation, Spatial Separation, Exceptions to Structural Fire Protection	17
3.	Passive Fire Protection Fire Separations and Closures, Fire Stops, Flame Spread Rating, Smoke Development, Firewalls, Fire Resistance Ratings	15
4.	Structural Design Structural Loads, Limit State Design, Dead Loads and Live Loads, Foundations, Requirements for Structural Materials and Special Structures	9
	Total	50

ACBOA Level III - EXAM 8 - PLAN REVIEW

LEVEL III, Exam 8 – PLAN REVIEW		
Two & half hour limit, 50 multiple choice questions, open book.		
	Content Area	Questions
1.	Administrative Requirements Application of Administrative Requirements	2
2.	General Requirements 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	10
3.	Building Fire Safety and Classification Building Height, Size, Spatial Separation, Fire Alarm and Detection Systems, Standpipe and Sprinkler, Systems, Lighting and Emergency Power, High Buildings, Access to Storeys, Routes, Access	13
4.	Occupant Safety Safety within Floors, Assembly Occupancies, Care and Detention, Residential, Industrial	8
5.	Exiting Exit Types, Number, Location & Fire Escapes, Travel Distance & Distance Between Exits, Exit Width, Height and Capacity, Fire Separation of Exits, Exit Signs, Handrails, Guards, Stairs and Ramps, Doors and Hardware, Emergency Access to Floor Areas/Crossover	10
6.	Vertical Transportation & Service Facilities Vertical Transportaion and Service Facilities	2
7.	Health Requirements and Accessible Design Plumbing Facilities, Accessible Design	1
8.	Structural Design Structural Design	1
9.	Environmental Separation Heat, Air, Vapour, Moisture, & Sound Ratings	2
10.	HVAC Design and Installation	1
Total		50

ACBOA Level III - EXAM 9 - LIFE SAFETY SYSTEMS

LEVEL III, Exam 9 – LIFE SAFETY SYSTEMS		
Two & half hour limit, 50 multiple choice questions, open book.		
	Content Area	Questions
1.	Safety Within Floors Suite Separation, Means of Egress, Door Requirements & Number Egress Doorways, Corridor Requirements, Ramps, Stairways & Exterior Passageways, Handrails and Guards, Exhaust Ventilation, Janitor and Laundry Rooms	8
2.	Assembly Occupancies Fire Separations, Fixed Seats and Fixed Bench Type Seats, Aisles, Doors, and Corridors, Guards and Risers for Stairs, Stages, Outdoor Places of Assembly	6
3.	Care and Detention Fire Separations, Doors and Corridors, Hospitals and Nursing Homes, Areas of Refuge, Contained Use Areas	8
4.	Residential Fire Separations, Storage Rooms, Egress	5
5.	Industrial Repair and Storage Garages and Separations, Multiple Tenant Self Storage, Vestibules	4
6.	Exits Types, Number & Location of Exits, Travel Distance & Distance Between Exits, Exit Width, Height and Capacity, Fire Separation of Exits, Exit Signs, Handrails and Guards, Stairs and Ramps, Doors and Hardware, Fire Escapes, Emergency Access to Floor Areas/Crossover	15
7.	Vertical Transportation Standards, Fire Separations, Elevators	4
	Total	50

ACBOA Level III - EXAM 10 - FIRE PROTECTION

LEVEL III, Exam 10 – FIRE PROTECTION		
Two & half hour limit, 50 multiple choice questions, open book.		
	Content Area	Questions
1.	Fire Alarm and Detection Systems Fire Alarm Requirements, Continuity Fire Alarm System, Types of Fire Alarms, Installation & Testing, Pull Stations , Annunciator & Zone Indication, Fire Detectors, Audibility, and Visual Requirements, Voice Communications, Smoke Alarms	12
2.	Standpipe and Sprinkler Systems Water Supply, General Standpipe & Sprinkler Requirements, Hose Connections, Hose Stations, Fire Department Connections	9
3.	Lighting and Emergency Power Lighting Requirements, Emergency Lighting and Power	3
4.	High Buildings Application, Fire fighters, elevators, Limits smoke movement, Central Alarm and Control Facility (CACF), Venting	7
5.	Building Fire Safety Exceptions to Building Height, Storage garages, Basements and Storage Below Ground, Streets, Multiple Major Occupancies, Automatic Sprinkler Systems, Construction Requirements, Interconnected Floors, and Mezzanines	14
6.	Access Access to Storeys, Access Routes, Roof Access	5
	Total	50