## **Certification: Building Plans Examiner**

### Exam ID: B3



# Scope:

A Building Plans Examiner will be responsible for reviewing submitted plans to determine if they meet the requirements of the various Building Codes and Standards that have been adopted by his / her jurisdiction. At this level of certification, the Examiner shall be able to review plans for any size of structure in any occupancy classification.

- 80 multiple-choice questions
- 3-1/2-hour limit
- Open book

#### 01 General Administration

5%

## 0101 Project Administration

3%

Verify that plans, specifications, and other project information is provided and is complete. Verify that the project is designed by approved persons when required, and has required approvals. Verify that design calculations are submitted in support of structural designs. Verify that alternative materials and methods of construction which are not specified by the building code are listed by an approved standard and approved by the building official. Verify that estimated project valuations are consistent with industry norms.

# 0102 Public Information and Legal

2%

For new and existing structures, answer questions about the need for permits and inspections including special inspections and structural observations, general code compliance of designs, procedures, and materials.

### 02 Building Planning

21%

## 0201 Building Location

1%

Verify from the site plan that the building or structure location is in compliance with the requirements of the local ordinances, fire separation regulations, fire access, and setbacks. Verifies that final grade will provide the required slope away from the footing or foundation wall. Verify finish floor elevation in flood-hazard areas for compliance with local and federal requirements.

## 0202 Allowable Increases

2%

Verify that allowable height and area increases are based on the open perimeter, and compliance of access to the open space. Verify compliance of allowable area modifications for automatic fire suppression and special occupancies.

### 0203 Use and Occupancy Classification

4%

Verify that use and occupancy classification, incidental use areas, accessory uses, and mixed occupancies are correct.

0204	Special Detailed Requirements Based on Use and Occupancy	2%
	Verify that special use and occupancy classification is correct. Verify compliance of special	
	provisions for atriums, covered mall buildings, high-rise buildings, hazardous occupancies, stages,	
	amusement buildings, and other occupancies or uses.	
020E	Type of Construction	2%
0203	Verify that the type of construction is correct for the type of occupancy. Verify that structural	2/0
	members, interior walls, floor/ceiling and roof/ceiling assemblies, roofs, and stairways conform to	
	type of construction requirements.	
	type of construction requirements.	
0206	Height and Area Design	3%
	Verify the actual height and floor area designs are within the allowable height and floor area limits.	
0207	Exterior Walls and Openings	3%
0207	Verify exterior walls, openings, parapets, and projections conform to the fire-resistive requirements	370
	for the type of construction, location on the site, and proximity to other buildings.	
	To the type of construction, location on the site, and proximity to other buildings.	
0208	Interior Environment	1%
	Verifies compliance of minimum room dimensions and openings. Verify compliance of lighting,	
	ventilation, exhaust, and minimum sanitation systems.	
0209	Safeguards During Construction	1%
	Assures that the precautions are taken for the safety at the construction site are specified in the	
	construction documents.	
0210	<u>Accessibility</u>	1%
	Verify accessibility of facilities and building elements to physically disabled persons comply with	
	minimum code requirements.	
0211	Materials Specifications	1%
	Verify that materials specifications comply with minimum code requirements and listing.	
03	Footings and Foundations	8%
0301	Footing and Foundations	3%
	Verify that necessary reports are submitted of the building site's soil capacity and stability when	
	required. Verify that footings are specified with correct size and setbacks and extend below the	
	frost line. Verify that footing and foundation reinforcement meets minimum requirements.	
0302	Stepped Footings and Special Foundations	2%
	Verify that stepped footings, piles, piers, and special foundations are correctly specified. Verify that	_,-
	wood members are protected against insects and decay.	
വാവാ	Foundation Walls	3%
0303	Verify that foundation stem walls are correctly sized and have sufficient height above grade. Verify	570
	that foundation wall reinforcement, anchor bolts, and fasteners are correct type, size, spacing, and	
	grade. Verify that foundation dampproofing and waterproofing is specified where required. Verify	
	maximum unbalanced fill height.	

04	Floor Construction	4%
0401	Floor Systems  Verify that floor system spans, bearing, and connections comply with minimum code requirements.  Verify that materials are protected against insects and decay where required. Verify that subflooring and decking has required thickness, span, and grade and meets installation specifications. Verify compliance of floor design. Verify that crawlspaces have required clearance, ventilation, insulation, screening, and access openings.	3%
0402	<u>Concrete Slabs and Floor Systems</u> Verify that concrete slabs and floor systems are designed in compliance with standards and material characteristics for specified exposure conditions.	1%
05	Wall Construction and Coverings	12%
0501	Wood Wall Systems  Verify compliance of wall systems for proper spans, spacing, bearing, and connections. Verify that pre-engineered wall systems are specified in accordance with their listing and manufacturer's specifications. Verify that wood members are protected against insects and decay where required.	2%
0502	Steel Framing Systems  Verify steel wall system spans, spacing, bearing, and connections. Verify that pre-engineered steel wall systems are in accordance with their listing and manufacturer's specifications.	2%
0503	Masonry Wall Systems  Verify compliance of masonry grouting, bonding, mortar type, height, size, lintels, reinforcement, and distance between lateral supports for masonry walls.	2%
0504	<u>Concrete Wall Systems</u> Verify compliance of height, size, attachments, bracing, and distance between lateral supports, and reinforcement for concrete wall systems.	2%
0506	Exterior Wall Coverings  Verify that exterior veneers and siding have correct anchorage, support, and backing. Verify that a weather-resistant barrier is correctly specified for all walls and around all wall openings. Verify that exterior sheathing materials are correctly sized and specified. Verify that plaster, stucco, and metal lath have correct thickness and fasteners.	2%
0507	Interior Wall Coverings Verify that wall and ceiling coverings are correct type and thickness, are correctly supported and fastened, and meet minimum sanitation requirements.	2%

06	Roof/Ceiling Construction	4%
0601	Roof/Ceiling Assemblies  Verify compliance of roof/ceiling construction for span, grade, type, connections, and bearing.  Verify that trusses are designed in accordance with code requirements and specified in accordance with their listing and manufacturer's specifications. Verify compliance of roof access and roof top structures. Verify that roof/ceiling insulation is of allowable materials, and is correctly specified. Verify that vapor and moisture barriers are correctly specified. Verify ventilation, screens, and access of attic and ceiling area construction.	3%
0602	Roof Coverings  Verify correct classification of roof coverings, roof slope, installation, flashings, and details, and method of roof drainage.	1%
07	Public Safety and Special Construction	46%
0701	Means of Egress  Verify general means of egress requirements, exit access, exits, and exit discharge. Verify compliance of public way, public use areas, and the use of public property. Verify emergency escape and rescue requirements.	5%
0702	Number, Width, and Arrangements of Exits  Verify that the occupancy load calculations are correct. Verify that the correct number of exits and required egress width are provided. Verify that arrangement of exits conform to requirements for separation, travel distances, and intervening rooms. Verify compliance of corridor arrangement and dead ends.	4%
0703	Exit Stairways and Ramps  Verify that stairways and ramps have correct width, rise, run, slope, landings, headroom, and height. Verify correct escape illumination, signage, handrails, guards, and other requirements.	4%
0704	Exit Doors and Egress Windows  Verify that exit doors have the correct direction of swing, size, and type of hardware. Verify that windows intended for use as emergency egress have correct clear opening areas, width, and heights.	3%
0705	Protected Exitways  Verify that corridors, exit passageways, stairway enclosures, horizontal exits, exit balconies, and exit courts are provided where required and have the correct fire protection.	3%
0706	Special Exiting Verify correct number and width of aisles and correct seat spacing. Verify requirements for grandstands, bleachers, and specific occupancies and uses.	1%
0707	<u>Fire Alarm and Extinguishing Systems</u> Determine when fire alarm, sprinkler, and standpipe systems are required; verify compliance of fire suppression systems.	3%

	Verify that area separation and occupancy separation walls and floor/ceiling assemblies are located where required and have correct fire-resistance.	
0709	Fire-Resistive Construction  Verify that the materials used for structural members, walls, floor/ceiling, and roof/ceiling assemblies and shaft enclosures comply with requirements for fire-resistive protection. Verify that fire resistance rated construction and location is in compliance with the code and tested assembly requirements.	4%
0710	Heat and Smoke Verify that heat, smoke detection, smoke barriers, and control systems are provided where required, and are correctly powered and listed. Verify that curtain boards and smoke and heat vents are correctly specified.	3%
0711	Interior Finishes  Verify that interior finishes meet required flame-spread and smoke developed classifications based on location, use and occupancy classifications, and are correctly supported.	2%
0712	Safety Glazing Verify that safety glazing is specified where required.	2%
0713	Opening Protectives, Penetrations, and Joint Systems  Verify compliance of opening protectives, penetrations, and joint systems in fire rated assemblies.  Verify that fire blocking and draft stopping is specified where required.	4%
0714	Miscellaneous Construction  Verify that exterior stairs, ramps, porches, decks, and balconies which are open to the weather support designed loads; are of suitable materials; and have required slope and width, tread, riser, headroom, guards, and handrail dimensions.	1%
0715	Building Services and Special Construction  Verify compliance of existing structures, membrane structures, temporary structures, pedestrian walkways, tunnels, awnings and canopies, marquees, signs, towers, antennas, elevators, and conveyance systems. Verify seismic restraint, high-wind, and snow-load design requirements. Verify that elevator lobbies, cars, and hoistways are correctly specified. Verify that elevator shafts are nronerly vented.	2%
0716	<u>Fireplaces and Chimneys</u> Verify that fireplaces, flues, and chimneys are correctly designed and have required clearances from	1%

4%

0708 Area and Occupancy Separations

combustible construction.