

RESIDENTIAL PLANS EXAMINER CONTENT OUTLINE

EXAM ID: R3

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

01 Administrative	5%
0101 Determine if a permit is required, the submittal is complete and meets the scope of the One and Two Family Dwelling Code.	3%
0102 Communicate with the applicant need for further information, alerting them of deficiencies in their submittal, or of their approval to start work; mark the official approved sets of drawings after approval.	2%
02 Site	10%
0201 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, flood-hazard areas, setbacks, encroaching on any legal easement, wetland, right of way or neighboring property.	8%
0202 Verify that final grade will provide the required slope away from the footing or foundation wall and will not adversely affect neighboring property.	2%
03 Architectural & Life Safety	25%
0301 Verify adequate room sizes, ceiling heights, heat, light and ventilation are provided.	3%
0302 Verify adequate means of egress, with proper widths, stairs, guards, rails and openings.	8%
0303 Verify fire protection thru rated walls, draft stopping, smoke detectors and sprinklers.	5%
0304 Verify safety requirements for glazing and foam plastic elements.	3%
0305 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.	3%
0306 Verify unique requirement compliance for specialty, detached and accessory structures such as pools, spas, fireplaces, and storage buildings.	3%
04 Structural	25%
0401 Verify designer used the correct design loads.	2%
0402 Verify that footings are designed to correct depth, size, setbacks and that footings will extend below the frost line. Verify footing drains for basements and crawl spaces for compliance with the code. Identify soil type and verify that bearing capacity is adequate.	3%
0403 Verify that foundation walls are correctly sized and have sufficient height above grade. Verify that foundation wall materials, reinforcement, anchor bolts and fasteners are correct type, size and grade and are located in accordance with	

	building code requirements. Verify that foundation dampproofing and waterproofing are to be provided.	5%
0404	Verify that structural elements are correctly designed to support loads and maintain load path continuity. Structural elements can include: Beams, Girders, Trusses, Headers, Joists, Rafters, Columns, Piers, Walls and Bracing as well as others not listed.	7%
0405	Verify lateral bracing is adequate to meet required load conditions such as wind and seismic loads.	5%
0406	Verify construction design for wall systems built below the lowest finished floor in flood zones.	1%
0407	Verify pre-manufactured construction elements are to be utilized in accordance with their listing.	2%
05	Energy Efficiency	5%
0501	Verify energy saving provision for the building envelope, mechanical equipment and appliances comply with the code and are indicated on the plans.	5%
06	Mechanical	10%
0601	Verify adequate protection, support, space and clearance are provided for mechanical equipment and appliances.	2%
0602	Verify adequate room volume for combustion air or alternate provisions.	2%
0603	Verify proper application of venting and venting termination.	2%
0604	Verify proper fuel gas pipe size to provide adequate gas to appliances and equipment.	2%
0605	Verify that special systems utilizing fuel burning equipment such as interior open-flame grills, pool and sauna heaters, hydronic heating systems and Decorative Appliances comply with code requirements, the manufacturer's instructions, and listing of the equipment and have proper access and clearances.	2%
07	Plumbing	10%
0701	Verify minimum required fixtures are provided in proper location with correct clearances.	3%
0702	Verify adequate clearances and support are provided for piping and piping termination.	1%
0703	Verify potable water system is provided and protected.	3%
0704	Verify sanitary disposal system is provided and protected.	3%
08	Electrical	10%
0801	Verify adequate service is being provided for the building as per the load calculation.	2%
0802	Verify required circuits and disconnects are provided.	1%
0803	Verify the method and location of the grounding and grounding electrode systems.	2%
0804	Verify that outlets, switches, luminaires and receptacles, including GFCI and AFCI protection, are installed in required locations.	2%
0805	Verify electrical panel location and working space clearances.	1%
0806	Verify bonding of metallic housings and elements.	1%
0807	Verify proper conductor and conduit sizing and support.	1%