CALIFORNIA RESIDENTIAL ELECTRICAL INSPECTOR JOB TASK ANALYSIS & EXAMINATION OUTLINE

EXAMID: J2	1 ID: J 2
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- 60 multiple-choice questions
- 2-hour time limit
- Open book

	Approximate % of 60 Que	estions
01	GENERAL REQUIREMENTS (Content Area)	10%
0101.	<u>Project Administration</u> (Task) Verify that required permits are issued and valid. Verify that the required approved plans and specifications are available when required and retained by the building official for the period required.	1%
0102.	Public Information and Legal (Task) Communicate the intent of the code using proper terminology. Answer questions about general code compliance, procedures and materials. Identify the suitability of the installation of materials according to the listing, and labeling. Communicate issues and maintains inspection reports, correction notices, stop work orders and data for the issuance of the certificate of occupancy.	1%
0103	Electrical Theory (Task) Apply basic electrical theory to determine loads and circuit ampacities for safe installation of electrical systems.	2%
0104	<u>Clearances and Guarding (Task)</u> Determine required working clearances, location, access and guarding requirements for electrical installations.	2%
0105	<u>Connections and Splices (Task)</u> Verify that conductor connections, splices and terminal identification meet code requirements.	2%
0106	Conductors (Task) Inspect conductors to verify correct use, type, insulations, markings, and ampacity.	2%
02	SERVICES (Content Area)	17%
0201	Service Size and Rating (Task) Inspect services to verify required conductor ampacity, clearances, location, materials and equipment.	8%
0202	Service Grounding and Bonding (Task) Verify size, type of conductors and electrodes including location and installation.	9%
03	BRANCH CIRCUIT & FEEDER REQUIREMENTS (Content Area)	28%
0301	Feeders (Task) Inspect feeders to verify conductor size, clearances, location, materials and grounding	5%
0302	conductors. <u>Branch Circuit and Feeder Calculations (Task)</u> Verify that the load to be placed on branch circuits and feeders meets code provisions for the conductor, devices, materials and equipment installed.	6%
0303	Branch Circuit Ratings and Overcurrent Protection (Task)	7%
0304	Verify correct size, type, location and installation of overcurrent devices. Required Branch Circuits (Task)	5%
0305	Verify that all required branch circuits are provided. Panelboards (Task) Verify panelboard rating, circuit identification, overcurrent protection, and correct installation.	5%

04	WIRING METHODS AND POWER & LIGHTING DISTRIBUTION (Content Area)	21%
0401	Installation Methods (Task) Verify that installation of all conductors, cables, raceways, and fittings meet code	4%
0402	requirements. Verify that underground wiring meets code requirements. <u>Branch Circuit Required Outlets</u> (Task) Verify that receptacle and lighting outlets and switches are provided in all required locations.	4%
0403	Branch Circuits - GFCI (Task)	4%
0404	Verify that ground-fault circuit interrupter protection is provided in all required locations. <u>Boxes and Enclosures (Task)</u> Verify that boxes are proper type, correctly sized and installed.	3%
0405	Equipment Grounding (Task)	3%
0406	Verify equipment bonding and grounding conductor sizes, connections, and installation. Flexible Cords (Task) Verify proper use and sizing of flexible cords.	2%
0407	Class 2 Circuits (Task) Inspect low voltage control wiring, Class 2 circuits, and fire alarm circuits.	1%
05	DEVICES, LIGHTING FIXTURES & APPLIANCES (Content Area)	19%
0501	Switches and Receptacles (Task) Verify that switches and receptacles are of the correct type, rating, and are installed properly.	6%
0502	Light Fixtures (Task) Verify that light fixtures and fixture wires are of correct type and rating and are properly installed.	4%
0503	Appliances (Task) Inspect appliance wiring and equipment to verify correct type, use, installation and	5%
	disconnecting means	
0504	disconnecting means. <u>Heating and Cooling Equipment (Task)</u> Inspect space heating and cooling equipment including air conditioning and refrigeration wiring and equipment to verify correct type, use, installation and disconnecting means.	4%
	Heating and Cooling Equipment (Task) Inspect space heating and cooling equipment including air conditioning and refrigeration	4% 5%