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- 1. Print these pages.
- 2. Circle the correct answers.
- 3. Page down to the last page for the verification forms and mailing instructions.
- 4. Use the 08 NEC code book as your reference guide.
- 5. 3 hours of continuing education for Journeyman & Master Electricians also UDC Electrical Inspectors & Commercial Electrical Inspectors.
- 6. <u>Click here</u> for the <u>Help Notes</u> on the last page that will assist you in answering the questions.

08 NEC Quiz_90

Practice questions in straight order-Articles 250.118(5) through 334.2

1.	Use the 2008 <i>NEC</i> to answer the following questions. Listed FMC can be used as the equipment grounding conductor if the length in any ground return path does	5.	Equipment grounding conductors for motor branch circuits shall be sized in accordance with Table 250.122, based on the rating of the device.
	not exceed 6 ft and the circuit conductors contained in the conduit are protected by overcurrent devices rated at or less.		(a) motor overload(b) motor over-temperature(c) motor short-circuit and ground-fault protective(d) feeder overcurrent protection
	(b) 20A (c) 30A (d) 60A	6.	On the load side of the service disconnecting means, the circuit conductor can be ground meter enclo- sures if all meter enclosures are located near the service disconnecting means and ground-fault protection is not
2.	An equipment grounding conductor shall be identified by		installed.
	(a) a continuous outer finish that is green (b) being bare (c) a continuous outer finish that is green with one or more yellow stripes		(a) grounding (b) bonding (c) grounded (d) phase
	(d) any of these	7.	A(n) shall be used to connect the grounding terminal of a grounding-type receptacle to a grounded
3.	Conductors with the color insulation shall not be used for ungrounded or grounded conductors.		box.
	(a) green(b) green with one or more yellow stripes(c) a or b(d) white		(a) equipment bonding jumper(b) grounded conductor jumper(c) a or b(d) a and b
4.	When ungrounded circuit conductors are increased in size, the equipment grounding conductor must be proportionately increased in size according to of	8.	Receptacle yokes designed and as self-grounding can establish the grounding circuit between the device yoke and a grounded outlet box.
	the ungrounded conductors.		(a) approved (b) advertised
	(a) ampacity (b) circular mil area (c) diameter (d) none of these		(c) listed (d) installed

 9. The receptacle grounding terminal of an isolated ground receptacle shall be connected to a(n) equipment grounding conductor run with the circuit conductors. (a) insulated (b) covered (c) bare (d) solid 	 15. Where Type NM cable passes through factory or field openings in metal members, it shall be protected by bushings or grommets that cover metal edges. (a) approved (b) identified (c) listed
 10. A connection between equipment grounding conductors and a metal box shall be by a(n) (a) grounding screw used for no other purpose (b) equipment listed for grounding (c) a listed grounding device (d) any of these 11. The conductors used to connect the surge protective device to ground shall not be any longer than and shall avoid unnecessary bends. 	 (d) none of these 16. Where Type NM cables pass through cut or drilled slots or holes in metal members, the cable shall be protected by securely covering all metal edges fastened in the opening prior to installation of the cable. (a) listed bushings (b) listed grommets (c) plates (d) a or b
(a) 6 in. (b) 12 in. (c) 18 in. (d) necessary 12. Conductors of ac and dc circuits, rated 600V or less, can occupy the same provided that all conductors have an insulation rating equal to the maximum voltage	 17. Where nails or screws are likely to penetrate nonmetallic-sheathed cable or ENT installed through metal framing members, a steel sleeve, steel plate, or steel clip not less than in thickness shall be used to protect the cable or tubing. (a) 1/16 in. (b) 1/8 in. (c) 1/2 in.
applied to any conductor. (a) enclosure (b) cable (c) raceway (d) all of these 13. Where cables or nonmetallic raceways are installed through bored holes in joists, rafters, or wood members, holes shall be bored so that the edge of the hole is the nearest edge of the wood member. (a) not less than 1½ in. from (b) immediately adjacent to (c) not less than ½ in. from (d) 90° away from 14. Cables laid in wood notches require protection against nails or screws by using a steel plate at least thick, installed before the building finish is applied. (a) ½ in. (b) ½ in. (c) ¼ in. (d) ½ in.	(d) ¾ in. 18. Cables or raceways installed under metal-corrugated sheet roof decking shall be supported so the nearest outside surface of the cable or raceway is not less than from the nearest surface of the roof decking. (a) ½ in. (b) 1 in. (c) 1½ in. (d) 2 in. 19. Rigid metal conduit that is directly buried outdoors shall have at least of cover. (a) 6 in. (b) 12 in. (c) 18 in. (d) 24 in.

20.	When installing PVC conduit underground without concrete cover, there shall be a minimum of of	26.	All conductors of the same circuit shall be, unless otherwise specifically permitted in the Code.
	(a) 6 in. (b) 12 in. (c) 18 in.		(a) in the same raceway or cable(b) in close proximity in the same trench(c) the same size(d) a or b
21.	(d) 22 in. What is the minimum cover requirement for Type UF	27.	Cables or raceways installed using directional boring equipment shall be for this purpose.
	cable supplying power to a 120V, 15A GFCI-protected circuit outdoors under a driveway of a one-family dwelling?		(a) marked (b) listed (c) labeled
	(a) 6 in.		(d) approved
	(b) 12 in. (c) 16 in. (d) 24 in.	28.	Which of the following metal parts shall be protected from corrosion?
22.	Type UF cable used with a 24V landscape lighting system can be have a minimum cover of (a) 6 in.		(a) ferrous metal raceways (b) ferrous metal elbows (c) ferrous boxes (d) all of these
	(a) 6 iii. (b) 12 in.	20	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	(c) 18 in. (d) 24 in.	29.	Aluminum raceways, cable trays, cablebus, auxiliary gutters, cable armor, boxes, cable sheathing, cabinets,
23.	Where direct buried conductors and cables emerge from grade, they shall be protected by enclosures or raceways		elbows, couplings, nipples, fittings, supports, and support hardware shall be provided with supplementary corrosion protection.
	to a point at least above finished grade. (a) 3 ft		(a) embedded or encased in concrete (b) in direct contact with the earth
	(b) 6 ft		(c) likely to become energized
	(c) 8 ft (d) 10 ft		(d) a or b
24.	Direct-buried service conductors that are not encased in concrete and that are buried 18 in. or more below grade	30.	Nonmetallic raceways, cable trays, boxes, cables with a nonmetallic outer jacket, fittings, and support hardware shall be
	shall have their location identified by a warning ribbon placed in the trench at least above the underground installation.		(a) listed as sunlight resistant(b) identified as sunlight resistant(c) a and b
	(a) 6 in.		(d) a or b
	(b) 10 in. (c) 12 in. (d) 18 in.	31.	Where nonmetallic wiring methods are subject to exposure to chemical solvents or vapors, they shall be inherently resistant to chemicals based upon their being
25.	Backfill used for underground wiring shall not		
	(a) damage the wiring method		(a) listed for the chemical
	(b) prevent compaction of the fill (c) contribute to the corrosion of the raceway		(b) identified for the chemical (c) a and b
	(d) all of these		(d) a or b

32.	An exposed wiring system for indoor wet locations where walls are frequently washed shall be mounted so that	38.	Conductors in raceways shall be between outlets, boxes, devices, and so forth.
	there is at least a between the mounting surface and the electrical equipment.		(a) continuous (b) installed
	(a) ¼ in. airspace (b) separation by insulated bushings		(c) copper (d) in conduit
	(c) separation by noncombustible tubing (d) none of these	39.	When the opening to an outlet, junction, or switch point is less than 8 in. in any dimension, each conductor shall
33.	Raceways or cable trays containing electric conductors shall not contain any pipe or tube for steam, water, air, gas, drainage, or any service other than		be long enough to extend at least outside the opening of the enclosure.
	(a) as permitted by the authority having jurisdiction (b) electrical (c) pneumatic		(a) 0 in. (b) 3 in. (c) 6 in. (d) 12 in.
34.	(d) as designed by the engineer Metal raceways, cable armors, and other metal enclo-	40.	Raceways shall be between outlet, junction, or splicing points prior to the installation of conductors.
	sures shall be joined together into a continuous electric conductor so as to provide effective electrical continuity.		(a) installed complete(b) tested for ground faults(c) a minimum of 80 percent completed
	(a) electrically (b) permanently (c) metallically (d) none of these	41.	(d) none of these Short sections of raceways used for shall not be required to be installed complete between outlet, junction, or splicing points.
35.	The independent support wires for wiring in a fire-rated ceiling assembly shall be distinguishable from fire-rated suspended-ceiling framing support wires by		(a) meter to service enclosure connection (b) protection of cables from physical damage (c) nipples
	(a) color (b) tagging (c) other effective means	42.	(d) separately derived systems A vertical run of 4/0 AWG copper shall be supported at intervals not exceeding
36.	(d) any of these Metal or nonmetallic raceways, cable armors, and cable sheaths between cabinets, boxes, fittings or other enclosures or outlets.		(a) 40 ft (b) 80 ft (c) 100 ft (d) 120 ft
	(a) can be attached with electrical tape (b) are allowed gaps for expansion (c) shall be continuous (d) none of these	43.	Openings around electrical penetrations through fire- resistant-rated walls, partitions, floors, or ceilings shall to maintain the fire-resistance rating.
37.	Raceways and cables installed into the of open-bottom equipment shall not be required to be mechanically secured to the equipment.		(a) be documented(b) not be permitted(c) be firestopped using approved methods(d) be enlarged
	(a) bottom (b) sides (c) top (d) any of these		

44.	No wiring of any type shall be installed in ducts used to	51.	Parallel conductors shall
	transport (a) dust (b) flammable vapors (c) loose stock (d) all of these		(a) be the same length and conductor material(b) have the same circular mil area and insulation type(c) be terminated in the same manner(d) all of these
45.	(d) all of these Equipment and devices shall only be permitted within	52.	The minimum size conductor permitted for branch circuits under 600V is AWG.
	ducts or plenum chambers used to transport environ- mental air if necessary for their direct action upon, or sensing of, the		(a) 14 (b) 12 (c) 10
	(a) contained air (b) air quality (c) air temperature (d) none of these	53.	(d) 8 There are four principal determinants of conductor operating temperature, one of which is generated internally in the conductor as the result of load current
46.	The space above a hung ceiling used for environmental air-handling purposes is an example of, and the wiring limitations of apply.		flow. (a) friction (b) magnetism
	 (a) a plenum used for environmental air, 300.22(B) (b) other space used for environmental air, 300.22(C) (c) a duct used for environmental air, 300.22(B) (d) none of these 		(c) heat (d) none of these
		54.	THWN insulated conductors are rated
47.	Wiring methods permitted in the ceiling areas used for environmental air include		(a) 75°C (b) for wet locations (c) a and b
	(a) electrical metallic tubing(b) FMC of any length(c) RMC without an overall nonmetallic covering(d) all of these	55.	(d) not enough information The ampacities listed in the Tables of Article 310.16 do not take into consideration.
48.	Where installed in raceways, conductors AWG and larger shall be stranded.		(a) continuous loads (b) voltage drop (c) insulation
	(a) 10 (b) 8 (c) 6 (d) 4	56.	(d) wet locations The ampacity of a conductor can be different along the length of the conductor. The higher ampacity can be used beyond the point of transition for a distance of no
49.	In general, the minimum size conductor permitted for use in parallel installations is AWG.		more than ft, or no more than percent of the circuit length figured at the higher ampacity, which
	(a) 10 (b) 4 (c) 1 (d) 1/0		ever is less. (a) 10, 10 (b) 10, 20 (c) 15, 15
50.	Parallel conductors shall have the same		(d) 20, 10
	(a) length (b) material (c) cross-sectional area (d) all of these		

57.	Where six current-carrying conductors are run in the same conduit or cable, the ampacity of each conductor shall be adjusted by a factor of percent.	62.	Surface-type cabinets, cutout boxes, and meter socket enclosures in damp or wet locations shall be mounted so there is at least airspace between the enclosure and the wall or supporting surface.
	(a) 40 (b) 60 (c) 80 (d) 90		(a) 1/16 in. (b) 1/4 in. (c) 11/4 in. (d) 6 in.
58.	Conductor derating factors shall not apply to conductors in nipples having a length not exceeding (a) 12 in. (b) 24 in.	63.	In walls constructed of wood or other material, electrical cabinets shall be flush with the finished surface or project therefrom.
59.	(c) 36 in. (d) 48 in. The ampacity adjustment factors of Table 310.15(B)(2) (a) does not apply to Type AC or Type MC cable without		(a) nonconductive (b) porous (c) fibrous (d) combustible
	an overall outer jacket, if which of the following conditions are met? (a) Each cable has not more than three current-carrying	64.	Noncombustible surfaces that are broken or incomplete shall be repaired so there will be no gaps or open spaces greater than at the edge of a cabinet or cutout box employing a flush-type cover.
	conductors. (b) The conductors are 12 AWG copper. (c) No more than 20 current-carrying conductors are bundled or stacked. (d) all of these		(a) ½2 in. (b) ½6 in. (c) ½ in. (d) ¼ in.
60.	Where conductors or cables are installed in conduits exposed to direct sunlight on or above rooftops, the ambient temperature shall be increased by where the conduits are less than ½ in. from the rooftop.	65.	Openings in cabinets, cutout boxes, and meter socket enclosures through which conductors enter shall be
	(a) 30°F (b) 40°F (c) 50°F (d) 60°F		(a) adequately closed (b) made using concentric knockouts only (c) centered in the cabinet wall (d) identified
61.	A neutral conductor that carries only the unbalanced current from other conductors of the same circuit shall not be required to be counted when applying the provisions of 310.15(B)(2)(a).	66.	Nonmetallic cables can enter the top of surface-mounted cabinets, cutout boxes, and meter socket enclosures through nonflexible raceways not less than 18 in. or more than ft in length if all of the required conditions are met.
	(a) neutral (b) grounded (c) grounding (d) none of these		(a) 3 (b) 10 (c) 25 (d) 100

67.	Enclosures for switches or overcurrent devices used for conductors feeding through shall not fill all the wiring space at any cross section to more than percent of the cross-sectional area of the space. (a) 20 (b) 30	73.	In walls or ceilings constructed of wood or other combustible surface material, boxes, plaster rings, extension rings, or listed extenders shall (a) be flush with the surface (b) project from the surface (c) a or b
	(c) 40 (d) 60	74	(d) be set back no more than ¼ in can be used to fasten boxes to structural members
68.	Nonmetallic boxes can be used with	/4.	of a building using brackets on the outside of the enclosure.
	(a) nonmetallic cables (b) nonmetallic raceways (c) flexible cords (d) all of these		(a) Nails (b) Screws (c) Bolts
69.	The total volume occupied by two internal cable clamps, six 12 AWG conductors, and a single-pole switch is (a) 2.0 cu in.	75.	(d) a and b A wood brace used for supporting a box for structural mounting shall have a cross-section not less than nominal
70	(b) 4.50 cu in. (c) 14.50 cu in. (d) 20.25 cu in. According to the <i>NEC</i> , the volume of a 3 x 2 x 2 in.		(a) 1 x 2 in. (b) 2 x 2 in. (c) 2 x 3 in. (d) 2 x 4 in.
70.	device box is (a) 8 cu in. (b) 10 cu in.	76.	Outlet boxes can be secured to suspended-ceiling framing members by mechanical means such as, or by other means identified for the suspended-ceiling framing member(s).
	(c) 12 cu in. (d) 14 cu in.		(a) bolts
71.	When Type NM cable is used with nonmetallic boxes not larger than 2½ x 4 in., securing the cable to the box shall not be required if the cable is fastened within of		(b) screws (c) rivets (d) all of these
	that box. (a) 6 in. (b) 8 in. (c) 10 in.	77.	Two intermediate metal or rigid metal conduits threaded wrenchtight into the enclosure can be used to support an outlet box containing devices or luminaires, if each raceway is supported within of the box.
72.	(d) 12 in. In noncombustible walls or ceilings, the front edge of a box, plaster ring, extension ring, or listed extender employing a flush-type cover, shall be set back not more		(a) 12 in. (b) 18 in. (c) 24 in. (d) 36 in.
	than from the finished surface. (a) ½ in. (b) ¼ in. (c) ¾ in. (d) ½ in.	78.	Boxes used at luminaire or lampholder outlets in a ceiling shall be designed for the purpose and shall be required to support a luminaire weighing a minimum of
			(a) 20 lb (b) 30 lb (c) 40 lb (d) 50 lb

supported by an outlet box that is listed and marked for the weight of the luminaire. (a) 20 lb (b) 30 lb (c) 40 lb (d) 50 lb (e) 40 lb (d) 50 lb 81. Floor boxes shall be specifically for this application. (a) identified (b) listed (c) marked (d) none of these 82. Listed outlet boxes to support ceiling-suspended fans that weigh more than lb shall have their allowable weight marked on the box. (a) 35 lb (b) 50 lb (c) 60 lb (d) 70 lb 83. Equipment weighing less than 6 lb can be supported to any box or plaster ring secured to a box, provided the equipment is secured with at least two or larger screws. (a) No. 6 (b) No. 8 (c) No. 10 (d) self tapping 84. Pull boxes or junction boxes with any dimension over shall have all conductors cabled or racked in an approved manner. 86. Handhole enclosures shall be designed and installed withstand (a) 600 lb (b) 3,000 lb (c) 60,000 lb (d) all loads likely to be imposed 87. Underground raceways and cable assemblies entering handhole enclosure shall extend into the enclosure, be they are not required to be (a) bonded (b) insulated (c) mechanically connected to the handhole enclosure (d) below minimum cover requirements after leaving to the handhole enclosure covers shall have an identifying the prominently identifies the function of the enclosure, such as "electric." (a) mark (b) logo (c) a or b (d) manual 89. Handhole enclosure covers shall require the use of too open, or they shall weigh over (a) 45 lb (b) 70 lb (c) 100 lb (d) 200 lb (d) 200 lb (d) 200 lb (d) 200 lb (d) 200 lb (d) 200 lb (d) 200 lb (d) 200 lb (d) 200 lb (d) 200 lb (d) 200 lb (e) withstand (a) 60 lb (b) 3,000 lb (c) 6,000 lb (d) all loads likely to be imposed 87. Underground raceways and cable assemblies entering handhole enclosure shall extend into the enclosure, the part of the	shing not more than ice box with no fewer 85. Listed boxes and handhole enclosures designed for underground installation can be directly buried when covered by, if their location is effectively identified and accessible. (a) concrete (b) gravel (c) noncohesive granulated soil (d) b or c
(b) 30 lb (c) 40 lb (d) 50 lb (d) 50 lb (d) all loads likely to be imposed 87. Underground raceways and cable assemblies entering handhole enclosure shall extend into the enclosure, be they are not required to be (a) identified (b) listed (c) marked (d) none of these 82. Listed outlet boxes to support ceiling-suspended fans that weigh more thanlb shall have their allowable weight marked on the box. (a) 35 lb (b) 50 lb (c) 60 lb (d) 70 lb 83. Equipment weighing less than 6 lb can be supported to any box or plaster ring secured to a box, provided the equipment is secured with at least two or larger screws. (a) No. 6 (b) No. 8 (c) No. 10 (d) self tapping 84. Pull boxes or junction boxes with any dimension over shall have all conductors cabled or racked in an approved manner.	s listed and marked for 86. Handhole enclosures shall be designed and installed to withstand
application. (a) identified (b) listed (c) marked (d) none of these 82. Listed outlet boxes to support ceiling-suspended fans that weigh more than ib shall have their allowable weight marked on the box. (a) 35 lb (b) 50 lb (c) 60 lb (d) 70 lb 83. Equipment weighing less than 6 lb can be supported to any box or plaster ring secured to any box or plaster ring secured to any box or plaster ring secured with at least two or larger screws. (a) No. 6 (b) No. 8 (c) No. 10 (d) self tapping 84. Pull boxes or junction boxes with any dimension over shall have all conductors cabled or racked in an approved manner. handhole enclosure shall extend into the enclosure, be they are not required to be (a) bonded (b) insulated (c) mechanically connected to the handhole enclosure with andhole (a) below minimum cover requirements after leaving to handhole (b) insulated (c) mechanically connected to the handhole enclosure covers shall have an identifying the plant of the surported to any many difference of the function of the second to open, or they shall weigh over (a) Monde (b) insulated (c) mechanically connected to the handhole enclosure covers shall have an identifying the plant of the function of the second to the function of the second to support the surport of the second to the function of the second to support the surport of the second to the function of the second to the function of the second to support the surport of the second to the function of the second to support of the second to the handhole enclosure covers shall have an identifying the surport of the second to the handhole enclosure (d) below minimum cover requirements after leaving the handhole enclosure of the handhole enclosure of the handhole enclosure of the handhole enclosure of the second to the handhole enclosure of the handhole enclosur	(b) 3,000 lb (c) 6,000 lb
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to open, or they shall weigh over (a) No. 6 (b) No. 8 (c) No. 10 (d) self tapping 44. Pull boxes or junction boxes with any dimension over shall have all conductors cabled or racked in an approved manner. to open, or they shall weigh over (a) 45 lb (b) 70 lb (c) 100 lb (d) 200 lb 90. When Type AC cable is run across the top of a floor jo in an attic without permanent ladders or stairs, substatial guard strips within of the scuttle hole, or at	to a box, provided the (d) manual
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shall have all conductors cabled or racked in an approved manner. in an attic without permanent ladders or stairs, substatial guard strips within of the scuttle hole, or at	(b) 70 lb (c) 100 lb
(a) 3 ft entrance, shall protect the cable.	
(a) 3 ft (b) 6 ft (c) 9 ft (d) 12 ft (e) 5 ft (d) 6 ft	(b) 4 ft (c) 5 ft

Help Notes

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1.
       250.118(5)
2.
       250.119
3.
       250.119
4.
       250.122(B)
5.
       250.122(D)(1)
6.
       250.142(B) Ex 2
7.
       250.146
8.
       250.146(B)
9.
       250.146(D)
10.
       250.148(C)
11.
       285.12
       300.3(C)(1)
12.
       300.4(A)(1)
13.
14.
       300.4(A)(2)
15.
       300.4(B)(1)
16.
       300.4(B)(1)
17.
       300.4(B)(2)
18.
       300.4(E)
19.
       300.5, Table Column 2
20.
       300.5, Table Column 3
21.
       300.5, Table Column 4
22.
       300.5, Table Column 5
23.
       300.5(D)(1)
24.
       300.5(D)(3)
25.
       300.5(F)
       300.5(I) and 300.3(B)
26.
27.
       300.5(K)
28.
       300.6(A)
29.
       300.6(B)
30.
       300.6(C)(1)
31.
       300.6(C)(2)
32.
       300.6(D)
33.
       300.8
       300.10
34.
35.
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36.
       300.12
37.
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38.
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39.
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46.
       300.22(C) FPN
47.
       300.22(C)(1)
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49.
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310.4(A)

310.4(B)

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51.
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89.
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90.
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