

## RULES OF THE IDAHO ELECTRICAL BOARD – CROSSWALK

UPDATED 3.12.24

Current Rule	Language	New Rule	Language
100.05	Continuing Education. To renew, journeymen and master electricians must provide proof of completion, during the prior three-year license cycle, of twenty-four (24) hours of continuing education instruction consisting of eight (8) hours of code update covering changes included in the latest edition of the National Electrical Code and sixteen (16) hours of any combination of code-update training, code-related training, or industry-related training	100.05 Pg.342	Continuing Education. To renew, journeymen and master electricians must provide proof of completion, during the prior three-year license cycle, of twenty-four (24) hours of continuing education instruction consisting of <b>sixteen (16) hours</b> of <b>Idaho Electrical Code</b> training and <b>eight (8) hours</b> of any combination of <b>National Electrical Code</b> code-update training, code-related training, industry-related training, <b>or independent study</b> . <b>Note:</b> Relaxed the requirements and to include the Idaho Electric Code.
200.03a	The master, journeyman, or limited electrical installer shall be designated the supervising electrician; must be available during working hours to carry out the duties of supervising, as set forth herein; and will be responsible for supervision of electrical installations made by said contractor as provided by Section 54-1010, Idaho Code.	200.03a Pg.342	The master, journeyman, <b>residential electrician</b> , or limited electrical installer shall be designated the supervising electrician; must be available during working hours to carry out the duties of supervising, as set forth herein; and will be responsible for supervision of electrical installations made by said contractor as provided by Section 54-1010, Idaho Code.
200.03a(i)	A master electrician, journeyman, or limited electrical installer is not qualified for one (1) year as the supervising electrician if his contractor license was revoked.	200.03a(i) Pg.342	A master electrician, journeyman, <b>residential electrician</b> , or limited electrical installer is not qualified for one (1) year as the supervising electrician if his contractor license was revoked.
200.03a(ii)	An individual contractor may act as his own supervising master, journeyman, or limited electrical installer upon the condition that he holds an active master, journeyman, or limited electrical installer license.	200.03a(ii) Pg.342	An individual contractor may act as his own supervising master, journeyman, <b>residential electrician</b> , or limited electrical installer upon the condition that he holds an active master, journeyman, <b>residential electrician</b> , or limited electrical installer license.
200.03b	The employing contractor or limited electrical contractor must ensure each apprentice, trainee,	200.03b Pg.342	The employing contractor or limited electrical contractor must ensure each apprentice, trainee,

	and provisional journeyman performs electrical work only under the constant on-the-job supervision and training of a master, journeyman, or installer		and provisional journeyman performs electrical work only under the constant on-the-job supervision and training of a master, journeyman, residential electrician, or installer
600.01	Documents. Under the provisions of Section 54-1001, Idaho Code, the National Electrical Code, 2017 Edition, (herein NEC) is hereby adopted and incorporated by reference for the state of Idaho and are in full force and effect on and after July 1, 2017, with the following amendments:	600.01 Pg.345	Documents. Under the provisions of Section 54-1001, Idaho Code, the National Electrical Code, 2023 Edition, (herein NEC) is hereby adopted with the following amendments:  <b>Note:</b> Updated to reflect 2023 NEC
600.01(a)	Idaho electrical Code: Documents: Article 110.3(A) and 110.3(B) shall not apply to submersible well pumps installed in swimming and marine areas; provided however, such articles shall apply to all other equipment required in the installation of a submersible well pump in such areas except for the actual submersible well pump itself.	600.01(a) Pg. 347	<b>Unchanged:</b> Article 110.3(A) and 110.3(B). Shall not apply to submersible well pumps installed in swimming and marine areas; provided however, such articles shall apply to all other equipment required in the installation of a submersible well pump in such areas except for the actual submersible well pump itself.
600.01(b)	Article 210.8(A)(7) Sinks. Delete article 210.8(A)(7) and replace with the following: Sinks - located in areas other than kitchens where receptacles are installed within one and eight tenths (1.8) meters (six (6) feet) of the outside edge of the sink.	600.01(c) Pg.347	<b>Unchanged:</b> Article 210.8(A)(7) Sinks. Delete article 210.8(A)(7) and replace with the following: Sinks - located in areas other than kitchens where receptacles are installed within one and eight tenths (1.8) meters (six (6) feet) of the outside edge of the sink.
		600.01(b) Pg.347	<b>Article 210.8 (A). Delete reference to 250-volt receptacles.</b> <b>Note:</b> The intent is that GFCI protection is not required for 250V receptacles in dwelling units, specifically ranges and dryers; but also may exempt EV chargers or other equipment in a garage. It is not intended to exempt GFCI protection where required in other Articles in the Code for specific equipment such as for spas or pool equipment, etc.

600.01(c)	Article 210.8(A)(10). Delete article 210.8(A)(10).	Removed	<p>This was in the list of locations in 210.8 (A). Since we deleted this reference this is duplicative language so it was deleted.</p> <p><b>Note:</b>          NEC 2017 Article 210.8(A)(10) [removed from rule] was relocated in 2023 and now 210.8(A)(11) [added to rule] for GFCI protection in laundry areas of a dwelling unit. Same intent as before with 2017 addenda.</p>
		600.01(d) Pg.347	<p>Article 210.8(A)(11). Delete article 210.8(A)(11) Laundry Areas.</p> <p><b>Note:</b>          NEC 2017 Article 210.8(A)(10) [removed from rule] was relocated in 2023 and now 210.8(A)(11) [added to rule] for GFCI protection in laundry areas of a dwelling unit. Same intent as before with 2017 addenda.</p>
600.01(d)	Article 210.8(D). Delete article 210.8(D).	600.01(e) Pg.347	<p>Article 210.8(D). Shall apply in full. Exception: In one- and two-family dwelling units, GFCI protection is not required for dishwashers or clothes dryers.</p> <p><b>Note:</b>          Article 210.8(D) verbiage is significantly changed from the 2017 Code. Changes reflect the intent to carry over that GFCI protection does not apply to dishwashers or clothes dryers to be consistent with 2017 addenda.</p>
600.01(e)	Article 210.52(E)(3). Delete article 210.52(E)(3) and replace with the following: Balconies, Decks, and Porches. Balconies, decks, and porches having an overall area of twenty (20) square feet or more that are accessible from inside the dwelling unit shall have at least one (1) receptacle outlet installed within the perimeter of the balcony, deck, or porch. The	600.01(g) Pg.347	<p><b>Unchanged:</b>          Article 210.52(E)(3). Delete and replace with the following: Balconies, Decks, and Porches. Balconies, decks, and porches having an overall area of twenty (20) square feet or more that are accessible from inside the dwelling unit shall have at least one (1) receptacle outlet installed within the perimeter of the balcony, deck,</p>

	receptacle shall not be located more than two (2.0) meters (six and one half (6½) feet) above the balcony, deck, or porch surface		or porch. The receptacle shall not be located more than two (2.0) meters (six and one half (6½) feet) above the balcony, deck, or porch surface.
600.01(f)	Add a new Article 225.30(F) – One (1)- or Two (2)-Family Dwelling Unit(s). For a one (1)- or two (2)-family dwelling unit(s) with multiple feeders with conductors one aught (1/0) or larger, it shall be permissible to install not more than six (6) disconnects grouped at one (1) location where the feeders enter the building, provided that the feeder conductors originate at the same switchboard, panelboard, or overcurrent protective device location.		<b>Note:</b> Board is not familiar with the origin or application of this addendum, but it appears to be duplicate of the "six switch rule" for services, Article 230.71(B)
		600.01(f) Pg.347	<b>Article 210.12(B). Shall apply in full. Exception: In one- and two-family dwelling units, Arc-Fault Circuit-Interrupter Protection shall only apply to all branch circuits and outlets supplying bedrooms. All other locations in such units are exempt from the requirements of Article 210.12(B).</b> <b>Note:</b> Around 2005, the Board required AFCI use in bedrooms only for dwelling units and not as fully required by NEC Article 210.12 for all 15- and 20-ampere branch circuits dwelling unit kitchens, family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, laundry areas, or similar rooms or areas. This requirement has been in the Electrical Rules since that time and was intended to remain in Rule by a vote of 5/3 during the 2020 NEC Code Adoption Collaborative, Kelly Lamp Chairman. The Board supports this requirement and left it in the packet for the Legislative approval and as requested by

			collaborative efforts with the industry.
600.01(g)	Where the height of a crawl space does not exceed one and four tenths (1.4) meters or four and one half (4.5) feet it shall be permissible to secure NM cables, that run at angles with joist, to the bottom edge of joist. NM cables that run within two and one tenth (2.1) meters or seven (7) feet of crawl space access shall comply with Article 320.23.	600.01(l) Pg.274	<b>Unchanged:</b> Article 334.15(C). Where the height of a crawl space does not exceed one and four tenths (1.4) meters or four and one half (4.5) feet, it shall be permissible to secure NM cables, that run at angles with joist, to the bottom edge of joist. NM cables that run within two and one tenth (2.1) meters or seven (7) feet of crawl space access shall comply with Article 320.23.
600.01(h)	Article 334.10(3). Delete Article 334.10(3) and replace with the following: Other structures permitted to be of Types III, IV, and V construction. Cables shall be concealed within walls, floors, or ceilings that provide a thermal barrier of material that has at least a fifteen (15)-minute finish rating as identified in listings of fire-rated assemblies. For the purpose of this section, cables located in attics and underfloor areas that are not designed to be occupied shall be considered concealed.	600.01(k) Pg.274	<b>Unchanged:</b> Article 334.10(3). Delete and replace with the following: Other structures permitted to be of Types III, IV, and V construction. Cables shall be concealed within walls, floors, or ceilings that provide a thermal barrier of material that has at least a fifteen (15)-minute finish rating as identified in listings of fire-rated assemblies. For the purpose of this section, cables located in attics and underfloor areas that are not designed to be occupied shall be considered concealed.
		600.01(h) Pg.274	<b>Article 230.67 Surge Protection. Delete NEC Article 230.67</b>  <b>Note:</b> This requirement did not exist in the 2017 NEC. The surge-

			protective devices are used to protect from voltage spikes (typically from lightning) damaging electrical equipment. This exemption was added through the 2023 negotiated rulemaking, as consumers can provide this protection on their own as desired at a lesser cost.
600.01(i)	Article 675.8(B). Compliance with Article 675.8(B) will include the additional requirement that a disconnecting means always be provided at the point of service from the utility no matter where the disconnecting means for the machine is located.	600.01(p) Pg.274	<b>Unchanged:</b> Article 675.8(B). Compliance with Article 675.8(B) will include the additional requirement that a disconnecting means always be provided at the point of service from the utility no matter where the disconnecting means for the machine is located.
		600.01(i) Pg.274	<b>Article 230.85 Emergency Disconnects. Delete Article 230.85.</b>  <b>Note:</b> This requirement did not exist in the 2017 NEC. Emergency disconnects on the exterior of a dwelling unit are intended to give first responders an easy way to disconnect all utility power from a house if necessary. This exemption was added as a cost-savings to consumer and as the result of other safety concerns.
600.01(j)	Article 682.10 shall not apply to submersible well pumps installed in swimming and marine areas; provided however, such articles shall apply to all other equipment required in the installation of a submersible well pump in such areas except for the actual submersible well pump itself.	600.01(q) Pg.274	<b>Unchanged:</b> Article 682.10. Shall not apply to submersible well pumps installed in swimming and marine areas; provided however, such articles shall apply to all other equipment required in the installation of a submersible well pump in such areas except for the actual submersible well pump itself.
		600.01(j) Pg.348	<b>Article 314.27(C) Boxes at Ceiling-Suspended (Paddle) Fan Outlets. Delete second paragraph.</b> <b>Note:</b>

			314.27 (c)(2) was revised in the 2023 NEC
600.01(k)	Article 682.11. Add the following exception to Article 682.11: This article shall not apply to service equipment that is located on or at the dwelling unit and which is not susceptible to flooding.	600.01(r) Pg.348	<b>Unchanged:</b> Article 682.11. Add the following exception: This article shall not apply to service equipment that is located on or at the dwelling unit and which is not susceptible to flooding.
600.01(l)	Article 682.13. Add the following exceptions to Article 682.13: i. Exception No 1. Wiring methods such as HDPE schedule eighty (80) electrical conduit or its equivalent or greater, and clearly marked at a minimum "Caution Electrical" to indicate that it contains electrical conductors shall be approved. It shall be buried whenever practical, and in accordance with the requirements of the authority having jurisdiction. The use of gray HDPE water pipe rated at two hundred (200) PSI (e.g. SIDR-7 or DR9) is suitable for use as a chase only when the following conditions are met: 1. When internal conductors are jacketed submersible pump cable. 2. When used in continuous lengths, directly buried, or secured on a shoreline above and below the water line. 3. When submersible pump wiring terminations in the body of water according to 682.13	600.01(s) Pg.348  600.01(t) Pg.348	<b>Unchanged:</b> Article 682.13. Add the following exceptions:  Exception No 1. Wiring methods such as HDPE schedule eighty (80) electrical conduit or its equivalent or greater and clearly marked at a minimum "Caution Electrical" to indicate that it contains electrical conductors shall be approved. It shall be buried whenever practical, and in accordance with the requirements of the authority having jurisdiction. The use of gray HDPE water pipe rated at two hundred (200) PSI (e.g. SIDR-7 or DR9) is suitable for use as a chase only when the following conditions are met: when internal conductors are jacketed submersible pump cable; when used in continuous lengths, directly buried, or secured on a shoreline above and below the water line; when submersible pump wiring terminations in the body of water according to 682.13 Exception No. 2 are met. i. Exception No 2. Any listed and approved splices required to be made at the submersible well pump itself, outside of a recognized submersed pump sleeve or housing, when wires are too large to be housed inside such sleeve, shall be covered with a non-metallic, impact resistant material, no less than one quarter (.25)

	<p style="text-align: center;">Exception No. 2 are met</p> <p>ii. Exception No 2. Any listed and approved splices required to be made at the submersible well pump itself, outside of a recognized submersed pump sleeve or housing, when wires are too large to be housed inside such sleeve, shall be covered with a non-metallic, impact resistant material, no less than one quarter (.25) inches thick, such as heavy duty heat shrink or other equivalent method approved by the authority having jurisdiction. (Eg. install a heat shrink over the sleeve or housing that the submersible well pump is installed in, and then recover (apply heat) the heat shrink over both the HDPE and the water line). At least six (6) inches shall be over the sleeve and at least twelve (12) inches over the HDPE and water line.</p> <p>iii. Exception No. 3. Pipe, conduit, PVC well casing, or other electrically unlisted tubing may be used as a chase, but not as a raceway, to protect conductors or cables from physical damage. Conductors or cables within a chase shall be rated for the location.</p>		<p>inches thick, such as heavy-duty heat shrink or other equivalent method approved by the authority having jurisdiction. (e.g. install a heat shrink over the sleeve or housing that the submersible well pump is installed in, and then recover (apply heat) the heat shrink over both the HDPE and the water line). At least six (6) inches shall be over the sleeve and at least twelve (12) inches over the HDPE and water line.</p> <p>ii. Exception No. 3. Pipe, conduit, PVC well casing, or other electrically unlisted tubing may be used as a chase, but not as a raceway, to protect conductors or cables from physical damage. Conductors or cables within a chase shall be rated for the location.</p>
600.01(m)	Article 682.14. Add the following additional exception to Article 682.14: For installations of submersible well pumps installed in public swimming and marine areas, submersible well pumps shall be considered directly	600.01(u) Pg.349	<b>Unchanged:</b> Article 682.14. Add the following additional exception: For installations of submersible well pumps installed in public swimming and marine areas, submersible well pumps shall be



	connected and shall be anchored in place. Ballast is an acceptable form of anchoring.		considered directly connected and shall be anchored in place. Ballast is an acceptable form of anchoring.
600.01(n)	Article 682.14(A). Add the following exception to Article 682.14(A): For installations of submersible well pumps installed in public swimming and marine areas, motor controller circuits such as remotely located stop pushbutton/s, disconnect/s, relay/s or switches shall be permitted as a required disconnecting means. Such circuits shall be identified at a minimum as “Emergency Pump Stop”, or “Emergency Stop” with other obvious indications on the visible side of the enclosure, that it controls a submersible pump in the body of water.	600.01(v) Pg.349	<b>Unchanged:</b> Article 682.14(A). Add the following exception: For installations of submersible well pumps installed in public swimming and marine areas, motor controller circuits such as remotely located stop pushbutton/s, disconnect/s, relay/s or switches shall be permitted as a required disconnecting means. Such circuits shall be identified at a minimum as “Emergency Pump Stop”, or “Emergency Stop” with other obvious indications on the visible side of the enclosure, that it controls a submersible pump in the body of water.
		600.01(n) Pg. 348	<b>Article 422.5 (A)(7). Delete Article 422.5 (A)(7) GFCI protection for dwelling unit dishwashers.</b> <b>Note:</b> Added to align with the removal of 210.8
600.01(o)	Article 682.15. Add the following exceptions to Article 682.15: i. Exception No. 1. Submersible pumps, and their motor leads, located in bodies of water, and that are rated sixty (60) amperes maximum, two hundred fifty (250) volts maximum of any phase, shall have GFCI or Ground Fault Equipment Protection designed to trip at a maximum of thirty (30) milliamps or less, protected by means selected by a licensed installer, meeting listing or labeling requirements, and inspected by the AHJ prior to submersion in bodies of water.	600.01(w) Pg. 349	<b>Unchanged:</b> Article 682.15. Add the following exceptions: i. Exception No. 1. Submersible pumps, and their motor leads, located in bodies of water, and that are rated sixty (60) amperes maximum, two hundred fifty (250) volts maximum of any phase, shall have GFCI or Ground Fault Equipment Protection designed to trip at a maximum of thirty (30) milliamps or less, protected by means selected by a licensed installer, meeting listing or labeling requirements, and inspected by the AHJ prior to submersion in bodies of water.

	<p>ii. Exception No. 2. Installations or repair and replacement of submersible pumps located in bodies of water, that are rated over sixty (60) amperes, and rated at any voltage, shall be evaluated by a qualified designer or experienced licensed contractor, or involve engineering or be engineered, for each specific application, with the goal of public safety. Whenever possible, GFCI or Ground Fault Equipment Protection designed to trip at a maximum of thirty (30) milliamps or less, meeting listing or labeling requirements, shall be installed, and inspected by the AHJ prior to submersion in bodies of water.</p>		<p>ii. Exception No. 2. Installations or repair and replacement of submersible pumps located in bodies of water, that are rated over sixty (60) amperes, and rated at any voltage, shall be evaluated by a qualified designer or experienced licensed contractor, or involve engineering or be engineered, for each specific application, with the goal of public safety. Whenever possible, GFCI or Ground Fault Equipment Protection designed to trip at a maximum of thirty (30) milliamps or less, meeting listing or labeling requirements, shall be installed, and inspected by the AHJ prior to submersion in bodies of water</p>
600.01(p)	<p>Article 550.32(B). Compliance with Article 550.32(B) shall limit installation of a service on a manufactured home to those homes manufactured after January 1, 1992.</p>		<p><b>Deleted</b></p>
		600.01(o) Pg.348	<p><b>Article 480.7(B) Battery Emergency Disconnect. Delete.</b> <b>Note:</b> Added to align with the removal of 230.85</p>
600.01(q)	<p>Poles used as lighting standards that are forty (40) feet or less in nominal height and that support no more than four (4) luminaires operating at a nominal voltage of three hundred (300) volts or less, shall not be considered to constitute a structure as that term is defined by the National Electrical Code (NEC). The disconnecting means shall not be mounted to the pole. The disconnecting means may be</p>	600.01(m) Pg.348	<p>Pole Lighting. Poles used as lighting standards <b>along roadways only (parking areas are not roadways)</b> that are forty (40) feet or less in nominal height and that support no more than four (4) luminaires operating at a nominal voltage of three hundred (300) volts or less to ground, shall not be considered a structure as it is defined as equipment by the NEC. The disconnecting means may be mounted to the pole or elsewhere</p>

	<p>permitted elsewhere in accordance with NEC, Article 225.32, exception 3. SEC special purpose fuseable connectors (model SEC 1791-DF or model SEC 1791-SF) or equivalent shall be installed in a listed handhole (underground) enclosure. The enclosure shall be appropriately grounded and bonded per the requirements of the NEC applicable to Article 230-Services. Overcurrent protection shall be provided by a (fast-acting – minimum - 100K RMS Amps 600 VAC) rated fuse. Wiring within the pole for the luminaires shall be protected by supplementary overcurrent device (time-delay – minimum - 10K RMS Amps 600 VAC) in break-a-away fuse holder accessible from the hand hole. Any poles supporting or incorporating utilization equipment or exceeding the prescribed number of luminaires, or in excess of forty (40) feet, shall be considered structures, and an appropriate service disconnecting means shall be required per the NEC. All luminaire supporting poles shall be appropriately grounded and bonded per the NEC.</p>		<p>in accordance with NEC, Article 225.32, exception 3. Special purpose fuseable connectors (model SEC 1791-DF or model SEC 1791-SF) or equivalent shall be installed in a listed handhole (underground) enclosure. The enclosure shall be appropriately grounded and bonded per the requirements of the NEC applicable to Article 230- Services. Overcurrent protection shall be provided by a (fast-acting – minimum - 100K RMS Amps 600 VAC) rated fuse. Wiring within the pole for the luminaires shall be protected by supplementary overcurrent device (time-delay – minimum - 10K RMS Amps 600 VAC) in break-a-away fuse holder accessible from the hand hole. Any poles supporting or incorporating utilization equipment or exceeding the prescribed number of luminaires, or in excess of forty (40) feet, may be considered structures, and an appropriate service disconnecting means shall be required per the NEC. All luminaire- supporting poles shall be appropriately grounded and bonded per the NEC. A service may not need a Watt Hour Meter. <b>Note:</b> Clarification of parking areas not being considered roadways.</p>
600.01(r)	Article 210.12(A). Delete.		
<p><b>Note:</b> New exemptions were included after collaboration with solar industry.</p>		600.01(x) Pg.349	<p><b>Article 690.12 Rapid Shut Down.</b> <b>Add following Exemptions:</b></p> <ul style="list-style-type: none"> <li>i. Detached structures whose sole purpose is to house PV system equipment shall not be considered buildings and thus may have roof mounted PV systems without rapid shutdown equipment according to this exception.</li> </ul>

		<p>ii. PV system circuits installed on or in buildings without the presence of a utility supplied power source shall not be required to comply with Article 690.12 where all of the following apply: the minimum distance to bring electric utility power lines or service conductors to the building is 1000 feet or greater; the building has a minimum setback distance of 100 feet from any building or structure located on adjacent properties; A lockable service entrance rated AC disconnect is installed outside at a readily accessible location; and the AC disconnect has a permanent placard or label with the following words or equivalent:  <b>WARNING SOLAR PV SYSTEM IS NOT EQUIPPED WITH RAPID SHUTDOWN</b>  The warning placard or label shall comply with Article 110.21(B)</p>
	600.01(y) Pg.350	Article 690.12(A) Exception. PV system circuits originating within or from arrays not attached to buildings that terminate on the exterior of buildings or inside nearest the point of entrance, and PV system circuits installed in accordance with Article 230.6 shall not be considered controlled conductors for the purposes of this section.
	600.01(z) Pg.350	Article 706.5: Listing. Energy storage systems shall be listed. This shall not apply to lead-acid batteries.
	600.01(aa) Pg.350	Article 706.15(B) Off Grid Systems. Add the following Exception: For one-family and two-family dwellings, a disconnecting means

			or its remote control shall be located at a readily accessible location.
600.02	Availability. A copy of the National Electrical Code is available at the offices of the Division.	600.02 Pg.350	Availability. A copy of the 2023 National Electrical Code is available at the offices of the Division

