

**SUBSTITUTE FOR  
SENATE BILL NO. 895**

A bill to amend 2016 PA 407, entitled  
"Skilled trades regulation act,"  
by amending sections 701, 711, 715, and 717 (MCL 339.5701,  
339.5711, 339.5715, and 339.5717), section 701 as amended by 2018  
PA 151.

**THE PEOPLE OF THE STATE OF MICHIGAN ENACT:**

1           Sec. 701. As used in this article:

2           (a) "Apprentice electrician" means an individual other than an  
3           electrical contractor, master electrician, or electrical  
4           journeyman, who is engaged in learning about and assisting in the  
5           installation or alteration of electrical wiring and equipment under  
6           the direct, ~~personal~~**-on-site, in-person** supervision of an  
7           electrical journeyman or master electrician.

1 (b) "Board" means the electrical administrative board  
2 described in section 705.

3 (c) "Electrical contractor" means a person that is engaged in  
4 the business of erecting, installing, altering, repairing,  
5 servicing, or maintaining electrical wiring.

6 (d) "Electrical journeyman" means an individual other than an  
7 electrical contractor who, as ~~his or her~~ **the electrical**  
8 **journeyman's** principal occupation, is engaged in the practical  
9 installation or alteration of electrical wiring. An electrical  
10 contractor or master electrician may also be an electrical  
11 journeyman.

12 (e) "Electric sign" means fixed, stationary, or portable self-  
13 contained, electrically illuminated equipment that has words or  
14 symbols designed to convey information or attract attention.  
15 Electric sign includes outline lighting. Electric sign does not  
16 include those signs that are indoor or outdoor portable  
17 applications or recognized holiday residential signs listed with a  
18 recognized testing and approval agency and that use a cord cap-110  
19 volt plug as the electrical energizing attachment method.

20 (f) "Electrical wiring" means all wiring, generating  
21 equipment, fixtures, appliances, devices, and appurtenances in  
22 connection with the generation, distribution, and utilization of  
23 electrical energy, in or on a building, residence, structure, or  
24 properties, regardless of whether or not the electrical wiring is  
25 energized at the time of installation. ~~The term~~ **Electrical wiring**  
26 includes service entrance wiring as defined in the Michigan  
27 electrical code.

28 (g) "Fire alarm contractor" means a person that is engaged in  
29 the business of erecting, installing, altering, repairing,

1 servicing, or maintaining wiring, devices, appliances, or equipment  
2 of a fire alarm system.

3 (h) "Fire alarm specialty apprentice technician" means an  
4 individual other than a fire alarm contractor or a fire alarm  
5 specialty technician who is engaged in learning about and assisting  
6 in the installation or alteration of fire alarm system wiring and  
7 equipment under the direct, ~~personal~~**-on-site, in-person** supervision  
8 of a fire alarm specialty technician.

9 (i) "Fire alarm specialty licensure" means licensure as a fire  
10 alarm contractor or a fire alarm specialty or apprentice  
11 technician.

12 (j) "Fire alarm specialty technician" means an individual  
13 other than a fire alarm contractor who, as ~~his or her~~**the fire**  
14 **alarm specialty technician's** principal occupation, is engaged in  
15 the design and practical installation or alteration of fire alarm  
16 systems. An individual who is a fire alarm contractor may also be a  
17 fire alarm specialty technician.

18 (k) "Fire alarm system" means a system that is designed to  
19 detect and annunciate the presence of fire, or by-products of fire,  
20 installed in a building or structure. Fire alarm system does not  
21 include a single station smoke detector.

22 Sec. 711. **(1)** The department shall issue an electrical  
23 contractor's license to a person that meets the requirements  
24 described in article 2 and either of the following:

25 (a) Is an individual who holds a master electrician's license.

26 (b) Has at least 1 full-time employee who is a master  
27 electrician, resides in this state, and is actively in charge of  
28 and responsible for Michigan electrical code compliance of all  
29 installations of electrical wiring and equipment.

1           (2) If an electrical contractor's license is issued to a  
 2 person that meets the requirements of subsection (1)(b), the  
 3 electrical contractor and the master electrician employed by the  
 4 electrical contractor are jointly and severally responsible for the  
 5 supervision or control of all electrical wiring operations  
 6 necessary to secure compliance with this article, the rules  
 7 promulgated under this article, and all other laws and rules  
 8 related to the installation of electrical wiring and equipment.

9           (3) If the master electrician described under subsection  
 10 (1)(b) ceases to be employed by the electrical contractor, not more  
 11 than 30 days after the end of the master electrician's employment,  
 12 the electrical contractor must employ another master electrician to  
 13 be actively in charge of and responsible for Michigan electrical  
 14 code compliance of all installations of electrical wiring and  
 15 equipment. The electrical contractor shall notify the department in  
 16 writing of the change in master electricians.

17           Sec. 715. (1) The department shall issue an electrical  
 18 journeyman's license to any individual who is ~~at least~~ **not less**  
 19 **than** 20 years old, meets the requirements described in article 2,  
 20 and meets either of the following:

21           (a) Has ~~at least~~ **not less than** 8,000 hours of experience  
 22 obtained over a period of ~~at least~~ **not less than** 4 years related to  
 23 electrical construction or maintenance of buildings or electrical  
 24 wiring or equipment ~~under the direct supervision of an individual~~  
 25 ~~who is licensed under this article.~~ **as an apprentice electrician**  
 26 **registered under section 717.**

27           (b) While on active duty in the armed forces, served as an  
 28 interior electrician or in an equivalent job classification; was  
 29 honorably discharged from that military service in the 1-year

1 period preceding the date the license application is filed; and  
2 has, and provides with ~~his or her~~ **the applicant's** application, an  
3 affidavit signed by a commanding officer, supervisor, or military  
4 superior with direct knowledge of the applicant's service that  
5 states that ~~he or she~~ **the applicant** has, ~~at least~~ **not less than**  
6 8,000 hours of entry-level experience in and basic knowledge of  
7 each of the following:

8 (i) General knowledge of the electrical trade, including  
9 terminology and the ability to make practical calculations.

10 (ii) The determination of system and circuit grounding and  
11 design and use requirements for grounding, including choosing  
12 proper size grounding conductors.

13 (iii) Knowledge of circuit classifications and ratings and  
14 design and use requirements for circuits, including branch circuit  
15 loads.

16 (iv) The determination of ampacity, type of insulation, usage  
17 requirements, methods of installation, protection, support, and  
18 termination.

19 (v) Knowledge regarding the installation of motors and control  
20 circuits.

21 (vi) The calculation of electrical loads and determination of  
22 proper size, rating, and type of service and feeder conductors.

23 (vii) Knowledge regarding fuses, circuit breakers, and all  
24 types of protective devices for conductors and equipment.

25 (viii) Knowledge of all types of raceways and their uses,  
26 including determining proper size, conductor fill, support, and  
27 methods of installation.

28 (ix) Knowledge of circuits and equipment characterized by usage  
29 and electrical power limitations, including differentiating them

1 from electric light and power circuits.

2 (x) Knowledge of all types and applications of lighting  
3 fixtures, ratings, requirements for occupancies, special  
4 provisions, and clearances.

5 (2) If an applicant who otherwise meets the requirements of  
6 subsection (1) (b) has not attained 8,000 hours of entry-level  
7 experience or does not have basic knowledge in each of the areas  
8 described in subsection (1) (b) (i) to (x), ~~he or she~~ **the applicant**  
9 may provide with ~~his or her~~ **the applicant's** application an  
10 affidavit signed by a commanding officer, supervisor, or military  
11 superior with direct knowledge of the applicant's service that  
12 states the amount of experience the applicant has attained and of  
13 which of the areas described in subsection (1) (b) (i) to (x) the  
14 applicant has basic knowledge, and the department may in ~~its~~ **the**  
15 **department's** discretion grant the applicant credit toward the  
16 8,000-hour experience requirement of subsection (1) (a) based on the  
17 applicant's experience.

18 (3) If an applicant fails to pass the electrical journeyman  
19 examination 2 times within a period of 2 years, the applicant is  
20 ineligible to sit for another examination until a period of at  
21 least 1 year after the date of failure of the second examination.  
22 After that 1-year period, ~~he or she~~ **the applicant** is again eligible  
23 to sit for an electrical journeyman's license if ~~he or she~~ **the**  
24 **applicant** presents to the board proof of the successful completion  
25 of a course on Michigan electrical code, electrical fundamentals,  
26 or electrical theory approved by the board.

27 (4) As a condition of renewal of an electrical journeyman's  
28 license, the electrical journeyman must demonstrate the successful  
29 completion of a course, approved by the board, concerning any

1 update or change in the state construction code within 12 months  
2 after the update or change in that code. This requirement applies  
3 only during or after those years that the state construction code  
4 is updated or changed.

5       Sec. 717. (1) An individual who is employed as an apprentice  
6 electrician shall register with the board on a form provided by the  
7 board ~~within~~ **not later than** 30 days after employment.

8       (2) The department shall issue a certificate of registration  
9 to an individual who is seeking registration under this section if  
10 it receives satisfactory proof of the individual's participation in  
11 an apprenticeship training program that is approved by the board  
12 under subsection (4).

13       (3) The ratio of electrical journeymen or master electricians  
14 to registered apprentice electricians ~~shall be~~ **is** on the basis of 1  
15 electrical journeyman or master electrician to ~~no~~ **not** more than ~~3-1~~  
16 registered apprentice ~~electricians.~~ **electrician**. The department or  
17 an enforcing agency shall enforce the ratio on a jobsite basis.

18       (4) For the purposes of this section, the board shall approve  
19 any bona fide apprenticeship training program that complies with  
20 subsection (3) and, excluding any requirements related to jobsite  
21 ratios that are inconsistent with subsection (3), is equivalent to  
22 or exceeds the requirements of those imposed by the Office of  
23 Apprenticeship in the United States Department of Labor.

24       **(5) If an electrical contractor violates subsection (3), the**  
25 **electrical contractor is subject to punishment under subsection**  
26 **(6). If an individual who holds a master electrician's license as**  
27 **described in section 711(1) (b) violates subsection (3), both the**  
28 **individual who holds a master electrician's license as described in**  
29 **section 711(1) (b) and the electrical contractor that employs the**

1 individual are subject to punishment under subsection (6).

2 (6) A person that violates subsection (3) is subject to the  
3 following punishments:

4 (a) For a first violation, a \$5,000.00 administrative fine.

5 (b) For a second violation, a \$10,000.00 administrative fine.

6 (c) For a third violation, a suspension, for not less than 90  
7 days, of the electrical contractor's master electrician's license,  
8 if applicable, or the master electrician's license of the  
9 individual who holds a master electrician's license as described in  
10 section 711(1)(b). After 90 days, the license may be reinstated if  
11 the applicable individual passes the master electrician examination  
12 described in section 713.

13 (7) The department shall pay any money collected under this  
14 section for an administrative fine to the enforcing agency that  
15 discovered the violation that resulted in the administrative fine.

16 (8) If the department issues an order for a violation of this  
17 section, the department is entitled to actual costs and attorney  
18 fees related to the investigation and adjudication of the  
19 violation.