SUBSTITUTE FOR HOUSE BILL NO. 5582

A bill to amend 1956 PA 217, entitled "Electrical administrative act," by amending section 3d (MCL 338.883d), as added by 1990 PA 246.

THE PEOPLE OF THE STATE OF MICHIGAN ENACT:

- 1 Sec. 3d. (1) The department of labor_LICENSING AND REGULATORY
- 2 AFFAIRS shall issue an electrical journeyman's license to a person
- 3 not less than ANY INDIVIDUAL WHO IS AT LEAST 20 years of age AND
- 4 who does all of the following:
- 5 (a) Files a completed application form provided by the
- 6 department of labor.LICENSING AND REGULATORY AFFAIRS.
- 7 (b) Pays the examination fee prescribed in REQUIRED UNDER
- 8 section 3 and passes an examination provided for by the board and
- 9 the department of labor.LICENSING AND REGULATORY AFFAIRS.
- 10 (c) Pays the license fee prescribed in REQUIRED UNDER section

- **1** 3.
- 2 (d) MEETS EITHER OF THE FOLLOWING:
- 3 (i) Has not less than AT LEAST 8,000 hours of experience
- 4 obtained over a period of not less than AT LEAST 4 years related to
- 5 electrical construction or maintenance of buildings or electrical
- 6 wiring or equipment under the direct supervision of a person AN
- 7 INDIVIDUAL licensed under this act.
- 8 (ii) WHILE ON ACTIVE DUTY AS A MEMBER OF THE ARMED FORCES,
- 9 SERVED AS AN INTERIOR ELECTRICIAN OR IN AN EQUIVALENT JOB
- 10 CLASSIFICATION; WAS HONORABLY DISCHARGED FROM THAT MILITARY SERVICE
- 11 IN THE 1-YEAR PERIOD PRECEDING THE DATE THE LICENSE APPLICATION IS
- 12 FILED; AND HAS, AND PROVIDES WITH HIS OR HER APPLICATION AN
- 13 AFFIDAVIT SIGNED BY A COMMANDING OFFICER, SUPERVISOR, OR MILITARY
- 14 SUPERIOR WITH DIRECT KNOWLEDGE OF THE APPLICANT'S SERVICE THAT
- 15 STATES THAT HE OR SHE HAS, AT LEAST 8,000 HOURS OF ENTRY-LEVEL
- 16 EXPERIENCE IN AND BASIC KNOWLEDGE OF EACH OF THE FOLLOWING:
- 17 (A) GENERAL KNOWLEDGE OF THE ELECTRICAL TRADE, INCLUDING
- 18 TERMINOLOGY AND THE ABILITY TO MAKE PRACTICAL CALCULATIONS.
- 19 (B) THE DETERMINATION OF SYSTEM AND CIRCUIT GROUNDING AND
- 20 DESIGN AND USE REQUIREMENTS FOR GROUNDING, INCLUDING CHOOSING
- 21 PROPER SIZE GROUNDING CONDUCTORS.
- 22 (C) KNOWLEDGE OF CIRCUIT CLASSIFICATIONS AND RATINGS AND
- 23 DESIGN AND USE REQUIREMENTS FOR CIRCUITS, INCLUDING BRANCH CIRCUIT
- 24 LOADS.
- 25 (D) THE DETERMINATION OF AMPACITY, TYPE OF INSULATION, USAGE
- 26 REQUIREMENTS, METHODS OF INSTALLATION, PROTECTION, SUPPORT, AND
- 27 TERMINATION.

- 1 (E) KNOWLEDGE REGARDING THE INSTALLATION OF MOTORS AND CONTROL
- 2 CIRCUITS.
- 3 (F) THE CALCULATION OF ELECTRICAL LOADS AND DETERMINATION OF
- 4 PROPER SIZE, RATING, AND TYPE OF SERVICE AND FEEDER CONDUCTORS.
- 5 (G) KNOWLEDGE REGARDING FUSES, CIRCUIT BREAKERS, AND ALL TYPES
- 6 OF PROTECTIVE DEVICES FOR CONDUCTORS AND EQUIPMENT.
- 7 (H) KNOWLEDGE OF ALL TYPES OF RACEWAYS AND THEIR USES,
- 8 INCLUDING DETERMINING PROPER SIZE, CONDUCTOR FILL, SUPPORT, AND
- 9 METHODS OF INSTALLATION.
- 10 (I) KNOWLEDGE OF CIRCUITS AND EQUIPMENT CHARACTERIZED BY USAGE
- 11 AND ELECTRICAL POWER LIMITATIONS, INCLUDING DIFFERENTIATING THEM
- 12 FROM ELECTRIC LIGHT AND POWER CIRCUITS.
- 13 (J) KNOWLEDGE OF ALL TYPES AND APPLICATIONS OF LIGHTING
- 14 FIXTURES, RATINGS, REQUIREMENTS FOR OCCUPANCIES, SPECIAL
- 15 PROVISIONS, AND CLEARANCES.
- 16 (2) IF AN APPLICANT WHO OTHERWISE MEETS THE REQUIREMENTS OF
- 17 SUBSECTION (1) (D) (ii) HAS NOT ATTAINED 8,000 HOURS OF ENTRY-LEVEL
- 18 EXPERIENCE OR DOES NOT HAVE BASIC KNOWLEDGE IN EACH OF THE AREAS
- 19 DESCRIBED IN SUBSECTION (1) (D) (ii) (A) TO (J), HE OR SHE MAY PROVIDE
- 20 WITH HIS OR HER APPLICATION AN AFFIDAVIT SIGNED BY A COMMANDING
- 21 OFFICER, SUPERVISOR, OR MILITARY SUPERIOR WITH DIRECT KNOWLEDGE OF
- 22 THE APPLICANT'S SERVICE THAT STATES THE AMOUNT OF EXPERIENCE THE
- 23 APPLICANT HAS ATTAINED AND OF WHICH OF THE AREAS DESCRIBED IN
- 24 SUBSECTION (1) (D) (ii) (A) TO (J) THE APPLICANT HAS BASIC KNOWLEDGE,
- 25 AND THE DEPARTMENT MAY IN ITS DISCRETION GRANT THE APPLICANT CREDIT
- 26 TOWARD THE 8,000-HOUR EXPERIENCE REQUIREMENT OF SUBSECTION (1) (D) (i)
- 27 BASED ON THE APPLICANT'S EXPERIENCE.

- 1 (3) (2) Upon failure IF AN APPLICANT FAILS to pass the
- 2 electrical journeyman examination 2 times within a period of 2
- 3 years, an THE applicant shall be IS ineligible to sit for another
- 4 examination until a period of not less than AT LEAST 1 year from
- 5 AFTER the date of failure of the second examination, at which time
- 6 he or she shall MUST present to the board proof of the successful
- 7 completion of a course on code, electrical fundamentals, or
- 8 electrical theory, approved by the board, in order to AGAIN become
- 9 eligible again to sit for an examination.
- 10 (4) (3) As a condition of renewal of an electrical
- 11 journeyman's license, the electrical journeyman shall demonstrate
- 12 the successful completion of a course, approved by the board,
- 13 concerning any update or change in the code within 12 months after
- 14 the update or change in that code. This requirement applies only
- 15 during or after those years that the code is updated or changed.
- 16 (5) AS USED IN THIS SECTION, "ARMED FORCES" MEANS THAT TERM AS
- 17 DEFINED IN SECTION 2 OF THE VETERAN RIGHT TO EMPLOYMENT SERVICES
- 18 ACT, 1994 PA 39, MCL 35.1092.