

SENATE COMMITTEE OF REFERENCE AMENDMENT

Committee on Business, Labor, & Technology.

SB25-165 be amended as follows:

1 Amend printed bill, strike everything below the enacting clause and
2 substitute:

3 **"SECTION 1.** In Colorado Revised Statutes, 12-115-103, **amend**
4 (2.5) and (3); and **add** (7.5), (7.7), (9.3), and (9.5) as follows:

5 **12-115-103. Definitions.** As used in this article 115, unless the
6 context otherwise requires:

7 (2.5) "Direct supervision" means that the supervising licensed
8 master electrician, journeyman electrician, ~~or residential wireman, OR~~
9 PHOTOVOLTAIC INSTALLER is physically present at the same physical
10 address where the apprentice is working.

11 (3) "Electric light, heat, and power" means the standard types of
12 electricity that are ~~supplied by an electric utility, regardless of whether the~~
13 ~~source is an electric utility or the inverter output circuit of a photovoltaic~~
14 ~~system, direct-current lighting system, or a similar circuit from another~~
15 ~~type of renewable energy system or electric vehicle charging~~
16 ~~infrastructure, and used and consumed in a real estate improvement or~~
17 ~~real estate fixture~~ REGULATED IN ACCORDANCE WITH THE NATIONAL
18 ELECTRICAL CODE, EXCLUDING CHAPTER 8, "COMMUNICATIONS SYSTEMS".

19 (7.5) "NABCEP" MEANS THE NORTH AMERICAN BOARD OF
20 CERTIFIED ENERGY PRACTITIONERS.

21 (7.7) "NABCEP PV INSTALLATION PROFESSIONAL" MEANS AN
22 INDIVIDUAL WHO IS CERTIFIED BY THE NABCEP TO INSTALL
23 PHOTOVOLTAIC SYSTEMS.

24 (9.3) "PHOTOVOLTAIC INSTALLER" HAS THE MEANING SET FORTH
25 IN SECTION 40-2-128 (2)(a.5).

26 (9.5) "PV INSTALLATION TRAINING" MEANS TRAINING CONCERNING
27 PHOTOVOLTAIC SYSTEMS INSTALLATION PRACTICES DESCRIBED IN THE "PV
28 INSTALLATION PROFESSIONAL JOB TASK ANALYSIS" DOCUMENT
29 PUBLISHED BY THE NABCEP.

30 **SECTION 2.** In Colorado Revised Statutes, 12-115-110, **amend**
31 (2)(a)(I), (2)(a)(II), (2)(b) introductory portion, (2)(b)(II), (3)(a), (3)(b)
32 introductory portion, and (3)(b)(II); and **add** (6) and (7) as follows:

33 **12-115-110. License requirements - rules - continuing**
34 **education - photovoltaic installer registration - repeal.**

35 (2) **Journeyman electrician.** (a) An applicant for a journeyman
36 electrician's license shall furnish written evidence that the applicant has
37 had the following:

38 (I) EIGHT THOUSAND HOURS OVER A PERIOD OF at least four years'
39 apprenticeship in the electrical trade or EIGHT THOUSAND HOURS OVER A

1 PERIOD OF AT LEAST four years' practical experience in wiring for,
2 installing, and repairing electrical apparatus and equipment for electric
3 light, heat, and power;

4 (II) TWO THOUSAND HOURS OVER A PERIOD OF at least two ~~of the~~
5 ~~applicant's years'~~ YEARS OF THE APPLICANT'S experience required by
6 subsection (2)(a)(I) of this section has been in commercial, industrial, or
7 substantially similar work; and

8 (b) An applicant ~~shall be permitted to~~ MAY substitute for required
9 practical experience evidence of academic training or practical experience
10 in the electrical field, which ~~shall be~~ IS credited as follows:

11 (II) If the applicant has academic training, including military
12 training OR PV INSTALLATION TRAINING, that does not qualify under
13 subsection (2)(b)(I) of this section, the board ~~shall~~ MAY provide work
14 experience credit for the training or for substantially similar training
15 established by rule.

16 (3) **Residential wireman.** (a) An applicant for a residential
17 wireman's license shall furnish written evidence that the applicant has at
18 least two years of accredited training or FOUR THOUSAND HOURS OVER A
19 PERIOD OF AT LEAST two years of practical experience in wiring one-,
20 two-, three-, and four-family dwellings.

21 (b) An applicant ~~shall be permitted to~~ MAY substitute for required
22 practical experience evidence of academic training in the electrical field,
23 which ~~shall be~~ IS credited as follows:

24 (II) If the applicant has academic training, including military
25 training OR PV INSTALLATION TRAINING, that is not sufficient to qualify
26 under subsection (3)(b)(I) of this section, the board ~~shall~~ MAY provide
27 work experience credit for the training according to a uniform ratio
28 established by rule.

29 (6) (a) FOR THE PURPOSES OF SUBSECTIONS (2)(a)(I) AND (3)(a) OF
30 THIS SECTION, AN APPLICANT EARNS PRACTICAL EXPERIENCE BY WORKING:

31 (I) TWO THOUSAND HOURS AS A NABCEP PV INSTALLATION
32 PROFESSIONAL WORKING FOR OR WORKING AS A PHOTOVOLTAIC
33 INSTALLER;

34 (II) UP TO TWO THOUSAND HOURS OF PRACTICAL EXPERIENCE
35 WORKING UNDER THE SUPERVISION OF A NABCEP PV INSTALLATION
36 PROFESSIONAL WORKING FOR OR WORKING AS A PHOTOVOLTAIC
37 INSTALLER, SO LONG AS THE SUPERVISING NABCEP PV INSTALLATION
38 PROFESSIONAL PROVIDES PROOF OF THE APPLICANT'S EMPLOYMENT AND
39 AN AFFIDAVIT ATTESTING THAT THE APPLICANT EARNED THE HOURS
40 WORKING UNDER THE SUPERVISION OF A NABCEP PV INSTALLATION
41 PROFESSIONAL; OR

42 (III) UP TO FOUR THOUSAND HOURS AS A NABCEP PV
43 INSTALLATION PROFESSIONAL WORKING FOR OR WORKING AS A

1 PHOTOVOLTAIC INSTALLER IF THE APPLICANT SUBMITS ADDITIONAL
2 DOCUMENTATION TO THE BOARD, INCLUDING PAYROLL RECORDS, WORK
3 ORDERS, PROJECT DESCRIPTIONS, OR OTHER RELEVANT MATERIALS THAT
4 DOCUMENT SIGNIFICANT SOLAR INDUSTRY WORK THAT QUALIFIES AS
5 ELECTRICAL HOURS. THE BOARD SHALL REVIEW THE DOCUMENTATION
6 AND DETERMINE HOW MANY HOURS OF PRACTICAL EXPERIENCE THE
7 APPLICANT EARNS BEYOND THE TWO THOUSAND HOURS PERMITTED BY
8 SUBSECTION (6)(a)(I) OF THIS SECTION.

9 (b) FOR EVERY TWO HOURS THAT AN APPLICANT WORKS AS
10 DESCRIBED IN SUBSECTION (6)(a)(II) OR (6)(a)(III) OF THIS SECTION, THE
11 APPLICANT EARNS ONE HOUR FOR THE PURPOSES OF SUBSECTION (2)(a)(I)
12 OR (3)(a) OF THIS SECTION.

13 (7) (a) A CONTRACTOR THAT IS OPERATING AS OF SEPTEMBER 1,
14 2025, AND THAT PERFORMS WORK AS A PHOTOVOLTAIC INSTALLER
15 PURSUANT TO SECTION 40-2-128 WITH AT LEAST ONE NABCEP CERTIFIED
16 EMPLOYEE SHALL REGISTER AS A PHOTOVOLTAIC INSTALLER WITH THE
17 BOARD ON OR BEFORE DECEMBER 31, 2026; EXCEPT THAT A CONTRACTOR
18 MAY REGISTER WITH THE BOARD DURING A SIXTY-DAY GRACE PERIOD IN
19 ACCORDANCE WITH SECTION 12-20-202 (1)(e).

20 (b) A CONTRACTOR REGISTERING AS A PHOTOVOLTAIC INSTALLER
21 PURSUANT TO THIS SUBSECTION (7) SHALL DESIGNATE THE CONTRACTOR'S
22 PRIMARY OWNER AS THE DESIGNATED AGENT FOR THE PURPOSE OF
23 REGISTRATION WITH THE BOARD.

24 (c) IF THE DESIGNATED AGENT DESIGNATED PURSUANT TO
25 SUBSECTION (7)(b) OF THIS SECTION IS NO LONGER AFFILIATED WITH THE
26 CONTRACTOR:

27 (I) THE CONTRACTOR'S REGISTRATION AS A PHOTOVOLTAIC
28 INSTALLER WITH THE BOARD IS INVALID; AND

29 (II) THE CONTRACTOR'S REGISTRATION IS INELIGIBLE FOR
30 REINSTATEMENT.

31 **SECTION 3.** In Colorado Revised Statutes, **amend** 12-115-111
32 as follows:

33 **12-115-111. Credit for experience not subject to supervision**
34 **of a licensed electrician.** For all applicants seeking work experience
35 credit toward licensure, the board ~~shall~~ MAY give credit for electrical
36 work that is not required to be performed by or under the supervision of
37 a licensed electrician if the applicant can show that the particular
38 experience received or the supervision under which the work has been
39 performed is adequate.

40 **SECTION 4.** In Colorado Revised Statutes, 40-2-128, **amend**
41 (1)(a)(I)(A) and (2)(a)(I); and **add** (2)(a.5) as follows:

42 **40-2-128. Solar photovoltaic installations - supervision -**
43 **qualifications of electrical contractors - definitions.** (1) For all

1 photovoltaic installations allowed under section 40-2-124 with a direct
2 current design capacity of less than three hundred kilowatts:

3 (a) (I) (A) The performance of all photovoltaic electrical work, the
4 installation of photovoltaic modules, and the installation of photovoltaic
5 module mounting equipment is subject to on-site supervision by a
6 certified photovoltaic energy practitioner, as designated by the North
7 American Board of Certified Energy Practitioners (NABCEP) AND THAT
8 IS WORKING FOR A PHOTOVOLTAIC INSTALLER, or a licensed master
9 electrician, licensed journeyman electrician, or licensed residential
10 wireman, as THOSE TERMS ARE defined in section 12-115-103.

11 (2) As used in this section, unless the context otherwise requires:

12 (a) (I) "Photovoltaic electrical work" ~~means wiring, grounding, or~~
13 ~~repairing electrical apparatus and equipment in a photovoltaic distributed~~
14 ~~generation system~~ MEANS ELECTRICAL WORK PERFORMED ON A
15 PHOTOVOLTAIC SYSTEM THAT IS COVERED ELECTRICAL WORK IN
16 ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, INCLUDING
17 ARTICLES 90.2 (1), 90.2 (3), 100, AND 690 OF THE NATIONAL ELECTRICAL
18 CODE.

19 (a.5) "PHOTOVOLTAIC INSTALLER" MEANS A CONTRACTOR THAT:

20 (I) IS NOT A REGISTERED ELECTRICAL CONTRACTOR, AS DEFINED
21 IN SECTION 12-115-103 (4);

22 (II) IS REGISTERED WITH THE STATE ELECTRICAL BOARD AS A
23 PHOTOVOLTAIC INSTALLER PURSUANT TO SECTION 12-115-110 (7) NO
24 LATER THAN DECEMBER 31, 2026;

25 (III) IS A BUSINESS IN GOOD STANDING WITH THE STATE AND
26 REGISTERED WITH THE SECRETARY OF STATE;

27 (IV) IS PERFORMING PHOTOVOLTAIC ELECTRICAL WORK AS OF
28 SEPTEMBER 1, 2025; AND

29 (V) EMPLOYS A NABCEP PV INSTALLATION PROFESSIONAL, AS
30 DEFINED IN SECTION 12-115-103 (7.7).

31 **SECTION 5.** In Colorado Revised Statutes, 12-115-107, **amend**
32 **(2)(f); and add (2)(f.5) as follows:**

33 **12-115-107. Board powers and duties - rules - definitions.**

34 (2) In addition to all other powers and duties conferred or imposed upon
35 the board by this article 115, the board is authorized to:

36 (f) (I) Regulate a licensed master electrician, journeyman
37 electrician, ~~or~~ residential wireman, OR PHOTOVOLTAIC INSTALLER WHO,
38 acting within ~~his or her~~ THEIR scope of competence, supervises a solar
39 photovoltaic installation pursuant to section 40-2-128.

40 (II) ~~On and after January 1, 2020,~~ All photovoltaic electrical work
41 for installations of at least three hundred kilowatts, including the
42 interconnection of the modules, grounding of the modules, any balance
43 of system wiring, and the customer-side point of connection to the utility

1 grid, must:

2 (A) Be performed by a licensed master electrician, A licensed

3 journeyman electrician, A licensed residential wireman, or properly

4 supervised electrical apprentices; and ~~must~~

5 (B) Comply with all applicable requirements of this article 115,

6 including sections 12-115-109 and 12-115-115, and all applicable rules

7 of the board.

8 (III) ONLY AN ELECTRICAL CONTRACTOR OR A PHOTOVOLTAIC

9 INSTALLER MAY PERFORM OR OFFER TO PERFORM PHOTOVOLTAIC

10 ELECTRICAL WORK FOR INSTALLATIONS OF LESS THAN THREE HUNDRED

11 KILOWATTS.

12 (f.5) REGULATE PHOTOVOLTAIC ELECTRICAL WORK FOR

13 INSTALLATIONS OF LESS THAN THREE HUNDRED KILOWATTS PERFORMED

14 IN ACCORDANCE WITH SECTION 40-2-128;

15 **SECTION 6.** In Colorado Revised Statutes, 12-115-117, **amend**

16 (1)(l); and **add** (1)(m) as follows:

17 **12-115-117. Fees.** (1) As established pursuant to section

18 12-20-105, fees shall be charged by the board for the following:

19 (l) Apprentice registration; AND

20 (m) PHOTOVOLTAIC INSTALLER REGISTRATION.

21 **SECTION 7. Act subject to petition - effective date.** This act

22 takes effect at 12:01 a.m. on the day following the expiration of the

23 ninety-day period after final adjournment of the general assembly; except

24 that, if a referendum petition is filed pursuant to section 1 (3) of article V

25 of the state constitution against this act or an item, section, or part of this

26 act within such period, then the act, item, section, or part will not take

27 effect unless approved by the people at the general election to be held in

28 November 2026 and, in such case, will take effect on the date of the

29 official declaration of the vote thereon by the governor."

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