

SENATE COMMITTEE OF REFERENCE REPORT

\_\_\_\_\_  
Chair of Committee

\_\_\_\_\_  
April 17, 2025  
Date

Committee on Business, Labor, & Technology.

After consideration on the merits, the Committee recommends the following:

SB25-165 be amended as follows, and as so amended, be referred to the Committee on Appropriations with favorable recommendation:

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

1 INSTALLATION PROFESSIONAL JOB TASK ANALYSIS" DOCUMENT  
2 PUBLISHED BY THE NABCEP.

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

6 **12-115-110. License requirements - rules - continuing**  
7 **education - photovoltaic installer registration - repeal.**

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

11 (I) EIGHT THOUSAND HOURS OVER A PERIOD OF at least four years'  
12 apprenticeship in the electrical trade or EIGHT THOUSAND HOURS OVER A  
13 PERIOD OF AT LEAST four years' practical experience in wiring for,  
14 installing, and repairing electrical apparatus and equipment for electric  
15 light, heat, and power;

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

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

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

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

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

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

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

43 (I) TWO THOUSAND HOURS AS A NABCEP PV INSTALLATION

1 PROFESSIONAL WORKING FOR OR WORKING AS A PHOTOVOLTAIC  
2 INSTALLER;

3 (II) UP TO TWO THOUSAND HOURS OF PRACTICAL EXPERIENCE  
4 WORKING UNDER THE SUPERVISION OF A NABCEP PV INSTALLATION  
5 PROFESSIONAL WORKING FOR OR WORKING AS A PHOTOVOLTAIC  
6 INSTALLER, SO LONG AS THE SUPERVISING NABCEP PV INSTALLATION  
7 PROFESSIONAL PROVIDES PROOF OF THE APPLICANT'S EMPLOYMENT AND  
8 AN AFFIDAVIT ATTESTING THAT THE APPLICANT EARNED THE HOURS  
9 WORKING UNDER THE SUPERVISION OF A NABCEP PV INSTALLATION  
10 PROFESSIONAL; OR

11 (III) UP TO FOUR THOUSAND HOURS AS A NABCEP PV  
12 INSTALLATION PROFESSIONAL WORKING FOR OR WORKING AS A  
13 PHOTOVOLTAIC INSTALLER IF THE APPLICANT SUBMITS ADDITIONAL  
14 DOCUMENTATION TO THE BOARD, INCLUDING PAYROLL RECORDS, WORK  
15 ORDERS, PROJECT DESCRIPTIONS, OR OTHER RELEVANT MATERIALS THAT  
16 DOCUMENT SIGNIFICANT SOLAR INDUSTRY WORK THAT QUALIFIES AS  
17 ELECTRICAL HOURS. THE BOARD SHALL REVIEW THE DOCUMENTATION  
18 AND DETERMINE HOW MANY HOURS OF PRACTICAL EXPERIENCE THE  
19 APPLICANT EARNS BEYOND THE TWO THOUSAND HOURS PERMITTED BY  
20 SUBSECTION (6)(a)(I) OF THIS SECTION.

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

25 (7) (a) A CONTRACTOR THAT IS OPERATING AS OF SEPTEMBER 1,  
26 2025, AND THAT PERFORMS WORK AS A PHOTOVOLTAIC INSTALLER  
27 PURSUANT TO SECTION 40-2-128 WITH AT LEAST ONE NABCEP CERTIFIED  
28 EMPLOYEE SHALL REGISTER AS A PHOTOVOLTAIC INSTALLER WITH THE  
29 BOARD ON OR BEFORE DECEMBER 31, 2026; EXCEPT THAT A CONTRACTOR  
30 MAY REGISTER WITH THE BOARD DURING A SIXTY-DAY GRACE PERIOD IN  
31 ACCORDANCE WITH SECTION 12-20-202 (1)(e).

32 (b) A CONTRACTOR REGISTERING AS A PHOTOVOLTAIC INSTALLER  
33 PURSUANT TO THIS SUBSECTION (7) SHALL DESIGNATE THE CONTRACTOR'S  
34 PRIMARY OWNER AS THE DESIGNATED AGENT FOR THE PURPOSE OF  
35 REGISTRATION WITH THE BOARD.

36 (c) IF THE DESIGNATED AGENT DESIGNATED PURSUANT TO  
37 SUBSECTION (7)(b) OF THIS SECTION IS NO LONGER AFFILIATED WITH THE  
38 CONTRACTOR:

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

41 (II) THE CONTRACTOR'S REGISTRATION IS INELIGIBLE FOR  
42 REINSTATEMENT.

43 **SECTION 3.** In Colorado Revised Statutes, **amend** 12-115-111

1 as follows:

2 **12-115-111. Credit for experience not subject to supervision**  
3 **of a licensed electrician.** For all applicants seeking work experience  
4 credit toward licensure, the board ~~shall~~ MAY give credit for electrical  
5 work that is not required to be performed by or under the supervision of  
6 a licensed electrician if the applicant can show that the particular  
7 experience received or the supervision under which the work has been  
8 performed is adequate.

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

11 **40-2-128. Solar photovoltaic installations - supervision -**  
12 **qualifications of electrical contractors - definitions.** (1) For all  
13 photovoltaic installations allowed under section 40-2-124 with a direct  
14 current design capacity of less than three hundred kilowatts:

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

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

24 (a) (I) "~~Photovoltaic electrical work" means wiring, grounding, or~~  
25 ~~repairing electrical apparatus and equipment in a photovoltaic distributed~~  
26 ~~generation system~~ MEANS ELECTRICAL WORK PERFORMED ON A  
27 PHOTOVOLTAIC SYSTEM THAT IS COVERED ELECTRICAL WORK IN  
28 ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, INCLUDING  
29 ARTICLES 90.2 (1), 90.2 (3), 100, AND 690 OF THE NATIONAL ELECTRICAL  
30 CODE.

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

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

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

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

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

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

43 **SECTION 5.** In Colorado Revised Statutes, 12-115-107, **amend**

1 (2)(f); and **add** (2)(f.5) as follows:  
2 **12-115-107. Board powers and duties - rules - definitions.**  
3 (2) In addition to all other powers and duties conferred or imposed upon  
4 the board by this article 115, the board is authorized to:  
5 (f) (I) Regulate a licensed master electrician, journeyman  
6 electrician, ~~or residential wireman,~~ OR PHOTOVOLTAIC INSTALLER WHO,  
7 acting within ~~his or her~~ THEIR scope of competence, supervises a solar  
8 photovoltaic installation pursuant to section 40-2-128.  
9 (II) ~~On and after January 1, 2020,~~ All photovoltaic electrical work  
10 for installations of at least three hundred kilowatts, including the  
11 interconnection of the modules, grounding of the modules, any balance  
12 of system wiring, and the customer-side point of connection to the utility  
13 grid, must:  
14 (A) Be performed by a licensed master electrician, A licensed  
15 journeyman electrician, A licensed residential wireman, or properly  
16 supervised electrical apprentices; and ~~must~~  
17 (B) Comply with all applicable requirements of this article 115,  
18 including sections 12-115-109 and 12-115-115, and all applicable rules  
19 of the board.  
20 (III) ONLY AN ELECTRICAL CONTRACTOR OR A PHOTOVOLTAIC  
21 INSTALLER MAY PERFORM OR OFFER TO PERFORM PHOTOVOLTAIC  
22 ELECTRICAL WORK FOR INSTALLATIONS OF LESS THAN THREE HUNDRED  
23 KILOWATTS.  
24 (f.5) REGULATE PHOTOVOLTAIC ELECTRICAL WORK FOR  
25 INSTALLATIONS OF LESS THAN THREE HUNDRED KILOWATTS PERFORMED  
26 IN ACCORDANCE WITH SECTION 40-2-128;  
27 **SECTION 6.** In Colorado Revised Statutes, 12-115-117, **amend**  
28 (1)(l); and **add** (1)(m) as follows:  
29 **12-115-117. Fees.** (1) As established pursuant to section  
30 12-20-105, fees shall be charged by the board for the following:  
31 (l) Apprentice registration; AND  
32 (m) PHOTOVOLTAIC INSTALLER REGISTRATION.  
33 **SECTION 7. Act subject to petition - effective date.** This act  
34 takes effect at 12:01 a.m. on the day following the expiration of the  
35 ninety-day period after final adjournment of the general assembly; except  
36 that, if a referendum petition is filed pursuant to section 1 (3) of article V  
37 of the state constitution against this act or an item, section, or part of this  
38 act within such period, then the act, item, section, or part will not take  
39 effect unless approved by the people at the general election to be held in  
40 November 2026 and, in such case, will take effect on the date of the  
41 official declaration of the vote thereon by the governor."

\*\* \*\*\* \*\* \*\*\* \*\*

