



**Committee:** T&E  
**Committee Review:** At a future date  
**Staff:** Livhu Ndou, Legislative Attorney  
**Purpose:** To receive testimony – no vote expected  
**Keywords:** #ElectricianLicenseCategories  
#LowVoltageLicense #BoardofElectricalExaminers

AGENDA ITEM #4  
July 12, 2022  
**Public Hearing**

## SUBJECT

Bill 12-22, Electricity – Board of Electrical Examiners – Licenses – Permit Requirements

Lead Sponsor: Council President Albornoz at the request of the County Executive

## EXPECTED ATTENDEES

Members of the public

## COUNCIL DECISION POINTS & COMMITTEE RECOMMENDATION

N/A

## DESCRIPTION/ISSUE

Bill 12-22 is a rewrite of Chapter 17, Electricity.

## SUMMARY OF KEY DISCUSSION POINTS

- This bill reflects changes made by the State assumption of the electrical licensing process in the 2021 Maryland Electricians Act.
- This bill will delete several license categories for electricians.
- This bill will create a new license category, the Low Voltage Electrician License. In addition, a new permitting process is being added.
- A public hearing is tentatively scheduled for July 12, 2022.

### **This report contains:**

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| Staff Memorandum                                  | Pages 1-2 |
| Bill 12-22  | © 1       |
| Legislative Request Report                        | © 48      |
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**MEMORANDUM**

July 7, 2022

TO: County Council

FROM: Livhu Ndou, Legislative Attorney

SUBJECT: Bill 12-22, Electricity – Board of Electrical Examiners – Licenses – Permit Requirements

PURPOSE: Public Hearing – to receive testimony

Bill 12-22, Electricity – Board of Electrical Examiners – Licenses – Permit Requirements, sponsored by Lead Sponsor Council President Alborno at the request of the County Executive, was introduced on June 14, 2022. A public hearing is scheduled for July 12, 2022. A Transportation and Environment Committee worksession will be scheduled at a later date.<sup>1</sup>

Bill 12-22:

- reflects changes made by the State assumption of the electrical licensing process;
- will delete several license categories for electricians;
- will create a new license category, the Low Voltage Electrician License and add a new permitting process.

**BACKGROUND**

The Maryland Electricians Act was passed in May 2021.<sup>2</sup> It went into effect in July 2021 and made many significant changes to the current licensure system for electricians at both the State and local level. The effect of this legislation is that electricians will no longer be required to carry numerous county, city, or other local licenses. Instead, much of licensure will be subsumed by the State. For example:

1. The State will be authorized to issue licenses for a licensed apprentice electrician and licensed journeyman electrician, in addition to a master electrician license.
2. Local authority to issue license master, journeyman, and apprentice electrician licenses has been repealed. However, local jurisdictions may still adopt requirements to issue apprentice, journeyman, and master registrations.
3. Individuals will be required to hold a state apprentice, journeyman, or master electrician license to offer, provide, or assist in providing electrical services.

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<sup>1</sup> #ElectricianLicenseCategories #LowVoltageLicense # BoardofElectricalExaminers

<sup>2</sup> The text of the Act can be found here: [2021 Regular Session - Senate Bill 762 Enrolled \(maryland.gov\)](#).

4. Electricians may obtain a licensing examination waiver if licensed by a local jurisdiction in which the individual passed a license examination.
5. Local jurisdictions will retain the authority to establish a local board and require permits, fees, and inspections. Local jurisdictions currently offering apprentice, journeyman, and master licenses may elect or be required to also issue registrations for individuals and to state-licensed electricians required for the provision of electrical services within that local jurisdiction.
6. A licensed or registered electrician will be required to display the State license number or the local registration number on each vehicle used on the job for the provision of electrical services.
7. Local jurisdictions that register apprentices, journeymen, or master electricians will be required to report to the Department of Labor on or before July 1, 2022, and each year thereafter, the number of apprentice, journeyman, and master electricians registered and the number of journeyman and master electrician license examinations administered.<sup>3</sup>

**BILL SPECIFICS**

Bill 12-22 is a rewrite of Chapter 17, Electricity, of the County Code that reflects many of the changes made by the Maryland Electricians Act. These changes include:

- The Montgomery County Board of Electrical Examiners will be eliminated since many of its previous functions will now be handled by the State.<sup>4</sup>
- Jurisdiction over appeals will be given to the County Board of Appeals.
- Several definitions and their corresponding provisions have been removed, since the only remaining local license will be the Low Voltage Electrician License. A definition of Low Voltage Electrician License is added, along with provisions on the licensure process for this license.
- The homeowner’s license/permit was retained because a state license is required to provide service for compensation, and the homeowner’s license does not fit this category.

|   |                 |
|---|-----------------|
| This packet contains:                             | <u>Circle #</u> |
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<sup>3</sup> Additional information for electricians related to the Maryland Electricians Act can be found here: <https://www.dllr.state.md.us/license/elec/elecnamech.shtml>.

<sup>4</sup> The Board’s main function was administering examinations to candidates who met the minimum requirements for licensure.

Bill No. 12-22  
Concerning: Electricity – Board of  
Electrical Examiners – Licenses –  
Permit Requirements  
Revised: 6/2/2022 Draft No. 1  
Introduced: June 14, 2022  
Expires: December 14, 2023  
Enacted: [date]  
Executive: [date signed]  
Effective: [date takes effect]  
Sunset Date: [date expires]  
Ch. [#], Laws of Mont. Co. [year]

## COUNTY COUNCIL FOR MONTGOMERY COUNTY, MARYLAND

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By: Council President at the Request of the County Executive

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**AN ACT** to:

- (1) amend the jurisdiction of the County Board of Appeals;
- (2) conform County law to the Maryland Electricians Act of 2021;
- (3) establish and authorize the issuance of a low-voltage electrician’s license;
- (4) authorize third-party plan review for photovoltaic system permitting; and
- (5) generally amend the County electricity law.

By amending

Montgomery County Code  
Chapter 2, Administration  
Section 2-112

Chapter 17, Electricity

Sections 17-1, 17-2, 17-3, 17-5, 17-6, 17-7, 17-8, 17-9, 17-10, 17-11, 17-12, 17-13, 17-14,  
17-15, 17-16, 17-17, 17-18, 17-19, 17-20, 17-21, 17-22, 17-23, 17-24, 17-25, 17-26, 17-27,  
17-28, 17-29, 17-30, 17-31, 17-32, 17-33, 17-35, 17-36, 17-37, and 17-38

|                              |  |
|------------------------------|--|
| <b>Boldface</b>              | <i>Heading or defined term.</i>                            |
| <u>Underlining</u>           | <i>Added to existing law by original bill.</i>             |
| [Single boldface brackets]   | <i>Deleted from existing law by original bill.</i>         |
| <u>Double underlining</u>    | <i>Added by amendment.</i>                                 |
| [[Double boldface brackets]] | <i>Deleted from existing law or the bill by amendment.</i> |
| * * *                        | <i>Existing law unaffected by bill.</i>                    |

*The County Council for Montgomery County, Maryland approves the following Act:*

1           **Sec. 1. Sections 2-112, 17-1, 17-2, 17-3, , 17-5, 17-6, 17-7, 17-8, 17-9, 17-10,**  
2 **17-11, 17-12, 17-13, 17-14, 17-15, 17-16, 17-17, 17-18, 17-19, 17-20, 17-21, 17-22,**  
3 **17-23, 17-24, 17-25, 17-26, 17-27, 17-28, 17-29, 17-30, 17-31, 17-32, 17-33, 17-35,**  
4 **17-36, 17-37, and 17-38 are amended as follows:**  
5 **2-112. Jurisdiction.**

6   \*           \*           \*

7           (c)   The Board has the following appellate jurisdiction.

8

|  |  |
|--|--|
| <b>The Board must hear and decide each appeal taken under:</b> | <b>Those appeals involve:</b>  |
| *    *    *  | *    *    *  |
| Section [17-28] <u>17-12</u>                                   | [Electricians and electrical contractors licenses]<br>County <u>electricity code</u> |
| *    *    *  | *    *    *  |

9   \*           \*           \*

10   **ARTICLE I. GENERAL PROVISIONS.**

11           **17-1. Scope and applicability of chapter.**

12           (a)   Except as otherwise provided, the provisions of this [chapter shall]  
13           Chapter apply to all electrical equipment and the installation thereof for  
14           light, heat or power within or on public or private buildings, structures or  
15           premises, including yards, carnivals and parking lots and industrial  
16           substations, and all electrical equipment, and the installation thereof, used  
17           for power supply to radio and television transmitting and receiving  
18           systems in or on such buildings, structures or premises, in the county.

- 19 (b) The provisions of this [chapter shall] Chapter do not apply to any  
 20 electrical work or equipment installed by or for any electric company,  
 21 telegraph or telephone company, where such electrical work or  
 22 equipment is owned and maintained by such company and is an integral  
 23 part of the plant or service used by such company in rendering its service  
 24 to the public.
- 25 (c) The provisions of this [chapter shall] Chapter do not apply to installations  
 26 in mines, ships or railway cars or to vehicular equipment.
- 27 (d) The provisions of this [chapter shall] Chapter do not apply to installations  
 28 or equipment employed by the United States government.
- 29 (e) A permit is not required for any minor repair, as defined in this Chapter.

30 **17-2. Regulations.**

- 31 (a) The [director] Director may recommend [written] regulations for the  
 32 administration of [the provisions of] this [chapter] Chapter, including a  
 33 schedule of fees, and may, at [his] the Director's discretion, hold public  
 34 hearings as part of this regulation-making process. Such regulations and  
 35 amendments thereto [shall] must not conflict with nor waive any  
 36 provisions of this [chapter] Chapter nor be less restrictive than its  
 37 provisions and [shall] must be adopted [by the county executive] under  
 38 [method] Method (2) of section 2A-15 of this Code.

39 (b) The [director shall] Director must hold a public [hearings] hearing, upon  
40 adequate public notice, [with opportunity for full participation from  
41 members of the board of electrical examiners and shall obtain the  
42 recommendations of the board of electrical examiners prior to forwarding  
43 his recommendations for] before proposing regulations setting forth the  
44 standards and requirements for all installations of electrical equipment  
45 within the [county] County. Such regulations [shall] must be based upon  
46 a designated edition of the National Electrical Code and local  
47 amendments thereto, including but not limited to those for the installation  
48 of fire alarm systems. Such regulations and amendments [thereto shall]  
49 must be adopted [by the county executive] under method (2) of section  
50 2A-15 of this Code.

51 **17-3. Adoption of basic electrical code.**

52 All electrical installations and equipment [shall] must meet the standards and  
53 requirements set forth in [accordance with procedures established in] section 17-2 of  
54 this [chapter] Chapter. The edition of the National Electrical Code and any local  
55 amendments thereto, which are adopted in accordance with procedures established in  
56 section 17-2 of this [chapter] Chapter[, shall be] are known as the basic electrical code  
57 for the [county] County.

58 **17-4. Administration and enforcement of chapter.**

59 This Chapter is administered and enforced by the Department of Permitting  
60 Services.

61 **17-5. Right of entry of departmental personnel.**

62 The [director or his authorized representative] Director, upon exhibiting proper  
63 credentials or proof of identity on request, [shall have the right to] may enter any non-  
64 residential building, structure or premises, [except private residences,] without consent  
65 of the occupants, at any time during business or operating hours, and at such other  
66 times as may be necessary in an emergency that immediately endangers life, property  
67 or public safety, for the purpose of performing duties under this [chapter] Chapter or  
68 enforcing the provisions thereof. In the case of [multiple] multi-family dwellings, the  
69 [director or his authorized representatives shall have the right to] Director may enter  
70 without consent only those spaces to which the public is ordinarily admitted, such as  
71 hallways, basements and similar spaces; provided, however, [that such authorities] the  
72 Director may enter any private residence or dwelling for the purpose of enforcing this  
73 [chapter] Chapter with the consent of the occupant thereof, or without such consent if  
74 [they shall] the Director first [obtain] obtains a search warrant in accordance with  
75 prescribed legal procedures, or if there is a present emergency such as a fire, explosion  
76 or the like, or immediately following such emergency.

77 **17-6. Unlawful maintenance of installations.**



78 [In the case of any electrical installation for which] When a permit is required  
 79 under this [chapter] Chapter, it [shall be] is unlawful for any person to maintain or  
 80 allow to be maintained [such] an electrical installation without a permit [if it does not  
 81 conform to the requirements hereof].

82 **17-7. Notice of electrical requirements to purchasers of air conditioners and**  
 83 **major appliances.**

84 (a) It [shall be] is unlawful for any person in the business of selling air  
 85 conditioners [and/or] or major appliances[, as defined herein,] to sell or  
 86 offer these items for sale without attaching to each item or its sealed  
 87 carton when sold in this manner so as to be readily observable by all  
 88 purchasers, written notice of the electrical wiring requirements of each,  
 89 all in conformity with standards of this electrical code.

90 (b) It [shall be] is unlawful for any person who engaged in such sales to fail  
 91 to display at a prominent location on the premises of such sales the wiring  
 92 requirement for such appliances as set forth in this chapter.

93 **17-8. Penalty for violations of chapter; injunctive action.**

94 [Any] A person has committed a Class A violation if the person violates [of]  
 95 any [provisions] provision of this [chapter] Chapter or [regulations] any regulation  
 96 promulgated hereunder [shall be punished as a Class A violation as set forth in section

97 1-19 of chapter 1 of the County Code]. Each day a violation continues to exist [shall  
98 constitute] constitutes a separate offense.

99 **17-9. Emergency disconnections.**

100 In cases of emergency where any electrical equipment, whether installed before  
101 or after the enactment of this [chapter] Chapter, is an immediate threat to the safety of  
102 persons or property, or where it may interfere with the fire protection service of any  
103 fire department in the [county] County, the [director shall have authority to] Director  
104 may disconnect [cause such] the electrical equipment [to be disconnected] immediately  
105 and without notice to the owner thereof.

106 **17-10. Fees.**

107 [Prior to the issuance of any] Before the Department issues a permit or license  
108 as provided for in this [chapter] Chapter, the applicant [therefore shall] must pay to the  
109 [county] County a fee in accordance with the schedule of fees established, and revised  
110 from time to time, by the [county executive] County Executive, in an amount not to  
111 exceed the cost of administering and enforcing [the chapter] this Chapter.

112 **17-11. Definitions.**

113 As used in this Chapter, the following words and phrases have the following  
114 meanings:

115 [*Apprentice electrician*: A person at least sixteen (16) years of age who is  
116 employed by an electrical contractor to work under the supervision of a master and/or

117 journeyman electrician and who has been issued an apprentice identification card by  
 118 the Department.]

119        [*Board*: The term "board" shall mean the board of electrical examiners created  
 120 by this Chapter.]

121        [*Business license*: The license granted by the County which authorizes the  
 122 licensee to engage in business as an electrical contractor in the County.]

123        *Department*[: The] means the Department of Permitting Services.

124        *Director*[: The] means the Director of the Department of Permitting Services,  
 125 or the Director's designee.

126        [*Electrical contractor*: A person, firm, company, corporation or partnership  
 127 principally engaged in the business of installing, repairing, maintaining, erecting and  
 128 designing electrical wiring, equipment, apparatus and systems designed for using or  
 129 conducting electrical current and coming within the purview of the electrical code, to  
 130 whom a valid business license has been issued.]

131        *Electrical equipment*[: The term "electrical equipment" shall include] includes  
 132 electrical conductors, raceways, wiring fittings, devices, appliances, fixtures,  
 133 apparatus, and any other equipment coming within the purview of the electrical code  
 134 of the County.

135           *Electrical code*[: The term "electrical code" shall include the electrical code of  
 136 the County, which includes] means the designated edition of the National Electrical  
 137 Code as adopted and amended [pursuant to] under this Chapter.

138           *Electrical services* means the definition given to “provide electrical services”  
 139 by Section 6-101 of the Business Occupations and Professions Article of the Annotated  
 140 Code of Maryland, as amended. The term “electrical services” does not include low-  
 141 voltage electrical services.

142           [Engaged in business: A person, firm, company, corporation or partnership  
 143 holding itself out to the public to furnish, install, repair or maintain under verbal or  
 144 written contract, electrical equipment. One so engaged shall be considered an electrical  
 145 contractor requiring a business license under this Chapter. Such a contractor, if licensed  
 146 as a master electrician or master electrician limited, may perform such work himself  
 147 or it may be performed by one or more of his employees under such supervision as  
 148 may be required by the electrical code.]

149           *Install, repair or maintain*[: The term "install, repair or maintain" shall include]  
 150 includes all installations, repairs or maintenance of any or all electrical equipment or  
 151 circuits, or any parts thereof, including new work, alterations, renewals or extensions  
 152 coming within the purview of this Chapter and the electrical code.

153           *Inspector*[: The term "inspector" shall mean] means an authorized agent of the  
 154 [department] Department.

155 [Journeyman electrician: A person licensed by Montgomery County as qualified  
156 to install, repair, maintain and erect electrical wiring, equipment, apparatus and  
157 systems, within the purview of the electrical code of the County, including but not  
158 limited to, electrical raceways, conductors, fixtures, signs, motors, switchgears and  
159 distribution systems, fixed electric heating systems or any other fixed or stationary  
160 electrical equipment or apparatus which conducts or consumes electricity, all such  
161 activity being performed while under the direction and supervision of a master  
162 electrician.]

163 [Licensee: The term "licensee" shall mean any person, firm, company,  
164 corporation or partnership to whom a license has been issued hereunder.]

165 Low-voltage electrical services means the installation, repair or maintenance of  
166 electrical equipment, circuits, or systems, or any parts thereof, designed to operate at  
167 or below 50 volts. Low-voltage electrical systems include fire alarm systems, cable tv  
168 systems, telephone systems, audio/video systems, computer network wiring and all  
169 other systems operating at or below 50 volts.

170 Major appliance[:] means [Laundry] laundry or kitchen appliances which are  
171 permanently connected or occupy fifty (50) percent or more of the circuit.

172 [Master electrician: A person licensed by the County as qualified to install,  
173 repair, maintain and erect electrical wiring, equipment, apparatus and systems, within  
174 the purview of the electrical code of the County, including, but not limited to, electrical

175 raceways, conductors, fixtures, signs, motors, switchgears and distribution systems,  
176 fixed electrical heating systems or any other fixed or stationary electrical equipment or  
177 apparatus which conducts or consumes electricity.]

178 [Master electrician limited: A person licensed by the County as qualified to  
179 install, repair and maintain a particular appliance, apparatus, device or fixture within  
180 the purview of the Montgomery County electrical code and limited to a branch circuit  
181 or feeder for elevators; gasoline pumps; automatic heating furnaces whose principal  
182 operation is derived from fuel oil, gas, steam, solar panels or coal; lighting fixtures;  
183 refrigeration and air conditioning equipment; illuminated signs and similar specialties;  
184 or limited to equipment for a plant, factor, apartment complex or any other public  
185 occupancy employing maintenance forces; fire alarm systems and electronic  
186 equipment; or major appliances; all employing the use of the electrical current or  
187 connections and such other classes designated in accordance with Section 17-22 of this  
188 Chapter.]

189 Minor repair means the repair of portable electrical equipment or lighting  
190 fixtures, the repair or replacement of receptacles, snap switches, or plugs with a rating  
191 up to 20 amperes and 120 volts, or other minor repairs at existing outlets, or the repair  
192 or replacement of motors with a rating 1/3 hp or less and 120 volts.

193 National Electrical Code: The currently designed] means the edition of the  
194 National Electrical Code published by the National Fire Protection Association as [set

195 forth in regulations] adopted [by the County Executive and approved by the County  
196 Council pursuant to provisions of] under this Chapter[, including appendices there  
197 adopted by the National Fire Protection Association at annual meetings].

198 **17-12. Appeals.**

199 (a) (1) Any denial, revocation, or suspension of a low-voltage electrician  
200 license may be appealed to the County Board of Appeals by the  
201 applicant not later than ten (10) days after such notice is personally  
202 served or received. Receipt by certified mail is presumed to be  
203 complete on the third day after mailing.

204 (2) Any person aggrieved by the issuance, denial, renewal,  
205 amendment, suspension, or revocation of a permit, or the issuance  
206 or revocation of a stop work order, under this Chapter may appeal  
207 to the County Board of Appeals within 30 days after the permit is  
208 issued, denied, renewed, amended, suspended, or revoked or the  
209 stop work order is issued or revoked. A person may not appeal any  
210 other order of the Department and may not appeal an amendment  
211 of a permit if the amendment does not make a material change to  
212 the original permit. A person must not contest the validity of the  
213 original permit in an appeal of an amendment or a stop work order.

214 (b) After notice and hearing, the Board may affirm, remand, modify, or  
215 reverse the action of the Department.

216 (c) Any party may seek judicial review of a decision of the Board under  
217 Section 2-114.

218 **[ARTICLE II. BOARD OF ELECTRICAL EXAMINERS.]**

219 **[Sec. 17-12. Created; composition.**

220 The County Executive must appoint, subject to confirmation by the Council, a  
221 Board of Electrical Examiners, composed of 5 voting members, who must be residents  
222 of the County.

223 (a) One member must hold a County master electrician's license.

224 (b) Two members must be when appointed, or must have had previous  
225 experience as, an electrical contractor, electrical contractor limited, or  
226 must otherwise be technically qualified in electricity.

227 (c) One member must represent the general public.

228 (d) One member must be a professional engineer, licensed in Maryland and  
229 experienced in electrical engineering.

230 (e) The Executive may appoint a person who does not have any required  
231 professional qualifications under subsections (a), (b), or (d), but who is  
232 otherwise technically qualified to assess proficiency in electricity.



233 (f) The Director may designate one or more Department employees as ex  
 234 officio, nonvoting members to promote coordination with the  
 235 Department's fire inspection and prevention and electrical inspection  
 236 activities.

237 (g) The Executive must designate one member of the Board as chair. If the  
 238 Executive does not designate a chair, the Board must elect its own chair.  
 239 The Board must select a vice- chair and any other officer it finds  
 240 necessary. The vice-chair must assume the duties of the chair when the  
 241 chair is absent.]

242 **[Sec. 17-13. Appointment and terms of members.**

243 Members of the board are appointed by the county executive, subject to the  
 244 confirmation of the council, for 3-year terms, except that any member appointed to fill  
 245 a vacancy occurring before the expiration of a term is appointed for the remainder of  
 246 that term.]

247 **[Sec. 17-14. Reserved.]**

248 **[Sec. 17-15. Staff.**

249 The county executive shall make available to the board such services and  
 250 facilities of the county as are necessary or appropriate for the proper performance of  
 251 its duties, and the county attorney shall serve as counsel to the board.]

252 **[Sec. 17-16. Duties.**

253 (a) The board shall advise the director on the issuance of licenses for  
 254 journeyman electricians, master electricians and master electricians  
 255 limited and shall ascertain by appropriate examination the qualifications  
 256 and capabilities of all persons who desire such licenses.

257 (b) In the case of examinations, the board shall have the authority to consult  
 258 or obtain the services of a recognized expert in the field to prepare said  
 259 examinations.

260 (c) The board shall advise the county executive on the adoption of proposed  
 261 rules and regulations to govern the placement, installation and operation  
 262 of electrical conductors, appliances, apparatus or construction upon or  
 263 about buildings and structures of all types throughout the county.]

264 **[Sec. 17-17. Reciprocity.**

265 The board of electrical examiners shall certify to the director any applicant as  
 266 qualified to be licensed, without examination by the board, if such applicant is  
 267 currently licensed in another jurisdiction, which jurisdiction has examinations and  
 268 qualification procedures which have been found by the board to be equivalent to those  
 269 required for licensing in the county and which grants similar reciprocity to  
 270 Montgomery County licensees.]

271 **ARTICLE [III] II. LICENSES.**

272 **[17-18] 17-13. Applicability of [article] Article; exceptions.**

273            [(a)] The [licensing] requirements of this Article apply [only] to all electrical  
274 work covered by this Chapter, as specified in Section 17-1. [Each licensee must  
275 perform all] All electrical work must be performed as required by this Chapter and the  
276 electrical code and regulations adopted under it.

277            [(b)] Any person who installs, repairs, or maintains electrical equipment, in a  
278 detached single-family residence which that person or a member of the  
279 person's immediate family owns, for the person's or immediate family's  
280 use, [need not obtain] a required to hold an electrical license under this  
281 Article. Before any electrical work is performed under this subsection,  
282 the owner of the residence must apply to the Director for a permit if a  
283 permit is otherwise required by this Chapter.]

284            [(c)] Before issuing a permit under this subsection, the Director must require  
285 the person who will perform the work to show that he or she is qualified  
286 to perform the proposed electrical work in a capable manner so as not to  
287 endanger the life and property of occupants or neighbors, or property  
288 belonging to any public utility. If the Director finds that the designated  
289 person is qualified to perform the proposed electrical work, the Director  
290 must issue a permit for that work, subject to compliance with all  
291 otherwise applicable requirements of this Chapter.]

292            [(d)] A permit is not required for any minor repair, as defined in this Chapter.]

293 **[17-19] 17-14. [Business licenses.] License required.**

294 (a) [It shall be unlawful for any person, firm, company, corporation or  
295 partnership engaged in business as an electrical contractor to install,  
296 repair or maintain any electrical circuit, electrical equipment or electrical  
297 apparatus unless such person, firm, company, corporation or partnership  
298 shall have first been granted by County a business license, entitling the  
299 licensee to perform such work.] Except as provided in subsection (c), no  
300 person may engage in the business of providing electrical services for  
301 compensation in the County unless properly licensed by the State Board  
302 of Electricians.

303 (b) [All installations, repairs, maintenance or other work done under a  
304 business license issued pursuant to this Chapter shall be by, or under the  
305 ultimate supervision of, the master electrician or master electrician  
306 limited regularly and principally employed by said licensee and  
307 designated on such business license as responsible for the work  
308 performed thereunder whose active status, in accordance with Section 17-  
309 25, has been certified by the Board. For the purpose of this Subsection,  
310 the words "regularly and principally employed" shall mean that the  
311 master electrician or the master electrician limited shall be available to  
312 supervise the installation whenever such work is being performed by any

313 electrician under his supervision for whose work he is responsible and  
314 that he is not employed by more than 3 licensees at one time. Non-  
315 availability on the job for more than a two-hour period of any master  
316 electrician, or master electrician limited, to supervise the performance of  
317 any electrical work performed under the authority of an electrical permit  
318 issued to him shall be cause for the suspension or revocation of this  
319 license.] Except as provided in subsection (c), no person may provide  
320 low-voltage electrical services in the County unless properly licensed by  
321 the State Board of Electricians or the person holds a low-voltage electrical  
322 license issued by the Director.

323 (c) [Nothing herein shall limit an electrical contractor from having more than  
324 one master electrician or master electrician limited in his employ.] Any  
325 person who installs, repairs, or maintains branch circuits as defined in the  
326 National Electric Code, in a detached single-family residence which that  
327 person or a member of the person's immediate family owns, for the  
328 person's or immediate family's use, is not required to hold an electrical  
329 license, provided the electrical services are not performed for  
330 compensation. Before any electrical work is performed, the owner of the  
331 residence must apply to the Director for a permit if a permit is otherwise  
332 required by this Chapter.

333 [(d) An applicant for a business license shall furnish, on a form approved by  
334 the Director, complete identification of the business, including principals,  
335 partners or affiliated corporations; references; criminal violations or civil  
336 judgments entered or causes of action pending against the business; name  
337 and license number of the supervising master electrician or master  
338 electrician limited and such other information as may be required as to  
339 character references and financial responsibility.]

340 [(e) An applicant for a business license shall furnish a certificate from an  
341 insurance company qualified to do business in the State of Maryland of  
342 public liability insurance in the amount of three hundred thousand dollars  
343 (\$300,000.00) coverage for death or personal injury of one (1) or more  
344 individuals, and three hundred thousand dollars (\$300,000.00) coverage  
345 for property damage, which insurance shall provide coverage for work  
346 done under any permit issued hereunder by the County and shall include  
347 coverage for both premises operations and completed operations. Such  
348 liability insurance shall state that the coverage therein provided for shall  
349 remain in full force and effect until thirty (30) days following the date  
350 written notice of cancellation or failure to renew is given by the insurance  
351 carrier or its authorized agent to the County, and any certificate of

352 insurance furnished pursuant to this Section shall provide for such  
 353 coverage.]

354 [(f) Subject to the provisions contained in Section 17-24, each license and  
 355 renewal of same shall be in force and effect only as long as the insurance  
 356 certificates that have been filed with the Board, in accordance with the  
 357 provisions of this Section, shall remain in full force and effect. Every such  
 358 license or renewal of same shall become void and of no effect should any  
 359 such insurance contract become inoperative, ineffective or canceled,  
 360 regardless of the regular date of expiration of said license.]

361 [(g) It shall be the joint and several responsibility of the contractor and the  
 362 master electrician responsible for any electrical construction to cause at  
 363 least one (1) licensed County master or journeyman electrician to be  
 364 present on every job site at all times when any work is being performed.  
 365 If there are one (1) or more persons on the job site performing electrical  
 366 work, the contractor and/or the master electrician must provide at least  
 367 one (1) licensed master or journeyman electrician on the job site for every  
 368 three (3) or less unlicensed persons performing electrical work.]

369 **[17-20] 17-15. [Electricians' licenses.] Low-voltage Electrician License.**

370 (a) There [shall be three (3) classes of] is a [electricians' licenses:

371 (1) Master electrician;

- 372 (2) Master electrician limited; and
- 373 (3) Journeyman electrician.] low-voltage
- 374 electricians' license.
- 375 (b) Before the [department shall] Director may issue or renew [an] a low-
- 376 voltage electrician's license, [it shall] the Director must require the
- 377 applicant to:
- 378 (1) [Provide it] provide the Director with such current information as
- 379 [it] the Director must require as to character references, experience,
- 380 education and training in or related to the construction,
- 381 maintenance, installation or repair of [all types] of low-voltage
- 382 electrical equipment and apparatus[, or in the case of an application
- 383 for a limited license, such information as it relates to the particular
- 384 type of installation applied for];
- 385 (2) [As determined by the Board, pass a written or oral examination
- 386 conducted by the Board predicated upon the standards of the
- 387 Montgomery County electrical code and rules and regulations
- 388 adopted pursuant thereto] provide proof of eligibility for a low-
- 389 voltage electrician license;
- 390 (3) provide a certificate from an insurance company qualified to do
- 391 business in the State of Maryland of public liability insurance in



392           the amount of three hundred thousand dollars (\$300,000.00)  
393           coverage for death or personal injury of one (1) or more  
394           individuals, and three hundred thousand dollars (\$300,000.00)  
395           coverage for property damage, which insurance must provide  
396           coverage for work done under any permit issued hereunder by the  
397           County and must include coverage for both premises operations  
398           and completed operations. Such liability insurance must state that  
399           the coverage therein provided will remain in full force and effect  
400           until thirty (30) days following the date written notice of  
401           cancellation or failure to renew is given by the insurance carrier or  
402           its authorized agent to the County, and any certificate of insurance  
403           furnished under this Section must provide for such coverage; and  
404           (4) [Pay] pay to the County, at the time of filing the application, a  
405           nonrefundable fee in the amount as set forth in regulation  
406           promulgated pursuant to this Chapter.

407           (c) [If the Board requests, the Director must investigate the character,  
408           experience, training and education of an electrician's license applicant  
409           and provide the results of the investigation to the Board.] Before a low-  
410           voltage electrician license is issued, the Director must obtain from  
411           reliable sources the applicant's record of compliance with state and

412 County laws and record of complaint actions with the Office of Consumer  
 413 Protection and the State Attorney General’s Consumer Protection  
 414 Division.

415 (d) [It shall be the duty of the Board to certify to the Director within sixty  
 416 (60) days after the date of the applicant’s examination whether the  
 417 applicant is qualified for the license applied for, on the basis of said  
 418 examination and the information provided it by the Director.]

419 [(e) In the case of applications for renewals] When an applicant requests the  
 420 renewal of an existing County low-voltage electrician’s license, [it shall  
 421 be the duty of] the Director [to] must withhold issuance of such license  
 422 upon a finding [by the Board] that [said] the licensee has committed acts  
 423 which are in violation of the provisions of this Chapter[, as set forth in  
 424 Section 17-28]. A license or renewal may be withheld if the applicant [or  
 425 its predecessor] is found to have committed a deceptive or  
 426 unconscionable trade practice in violation of Chapter 11, Section 11-4, of  
 427 the Montgomery County Code, as amended.

428 [(f)] (e) All application approvals or denials [of said applications shall] must be  
 429 personally served or mailed by certified mail to the address on the  
 430 application. [Any denial may be appealed to the County Board of Appeals

431 by the applicant not later than ten (10) days after such notice is personally  
432 served or received.]

433 [(g) If an applicant for any license or examination has been employed by the  
434 federal, state or local government in a military or nonmilitary capacity,  
435 the applicant may submit to the Board of Electrical Examiners an  
436 affidavit from the section chief or division chief to whom the applicant  
437 was directly responsible, specifying:

438 (1) The section or division chief's qualifications in the field of  
439 electrical construction, and any licenses he may hold pertinent  
440 thereto;

441 (2) The grade and title of the section or division chief, and the grade  
442 and title of the applicant;

443 (3) The official job description of the applicant's position(s);

444 (4) The time in this position(s); and

445 (5) A specific description of the type of work performed by the  
446 applicant and the time periods thereof.

447 The board of electrical examiners shall review the information supplied  
448 by the applicant as to training and experience and shall determine its credibility and  
449 may allow up to a maximum of four (4) years' experience toward the requirements set  
450 forth in this Chapter for the examination applied for. For the purposes of this section,

451 a "sworn statement" shall mean any statement which the maker thereof certifies as  
 452 being true to the best of his information, knowledge and belief, under the penalties of  
 453 perjury.]

454 **[17-21] 17-16. Eligibility for [examination-Master] Low-voltage electrician**  
 455 **license.**

456 (a) Any person who desires to [install, repair, maintain or erect electrical  
 457 equipment as a master electrician] perform low-voltage electrical  
 458 services, as defined by the [chapter] Chapter, may at any time make  
 459 application to the [director to be examined and the director shall] Director  
 460 who must provide the applicant with the prescribed forms.

461 (b) An applicant for [examination for] a [master] low-voltage electrician  
 462 license [shall] must:

463 (1) hold a Master Electrician license issued by the State Board of  
 464 Electricians;

465 (2) hold a current Master Electrician or Master Electrician Limited  
 466 license issued by the Director; or

467 (3) have been regularly and principally employed or engaged in  
 468 performing low-voltage electrical [construction, maintenance,  
 469 installation and repair of all types of electrical equipment and  
 470 apparatus, all coming within the purview of and subject to all

471 provisions of] services, as defined by this [chapter] Chapter, for a  
 472 period of not less than [~~eight (8)~~] four (4) years preceding the date  
 473 of [his] the application, under the directions and supervision of a  
 474 master electrician, and pass the current version of the International  
 475 Code Council's low-voltage electrician Exam G21 with a grade  
 476 constituting at least seventy (70) percent of the total possible point  
 477 credits in the examination. [The board may credit maximum of  
 478 four (4) years of formal course study or training in electrical  
 479 installation completed at a trade school or other educational  
 480 institution which in the opinion of the board provided comparable  
 481 experience and training otherwise attainable under the supervision  
 482 of a master electrician or while employed by a government  
 483 agency.]

484 **[Sec. 17-22. Same-Master electrician limited.**

485 (a) Any person who desires to install, repair, maintain or erect electrical  
 486 equipment as a master electrician limited, as defined in this chapter, may at any time  
 487 make application to the director to be examined and the director shall provide the  
 488 applicant with the prescribed forms.

489 (b) An applicant may be licensed hereunder for a particular type of electrical  
 490 installation or may be licensed for all types or as many types of limited electrical

491 installations as defined herein and for which he shall be found qualified by the board.  
492 He shall have been regularly and principally employed for four (4) years preceding  
493 application in the area of limitation, under the direction of a master electrician, or  
494 master electrician limited, where the limitation is in the same area as requested. The  
495 type of limited licenses shall be set forth in regulations adopted under method (3) of  
496 section 2A-15 of this Code by the county executive upon recommendation of the board.  
497 Particular license classifications shall include, without limiting, licenses for electrical  
498 connections and circuits to air conditioning, elevators, gasoline pumps, automatic  
499 heating furnaces whose principal operation is derived from fuel oil, gas, steam, solar  
500 panels, or coal, lighting, illuminated signs, and similar specialties, and electrical repair  
501 and maintenance work, in plants, factories, apartment complexes and any public  
502 occupancy employing maintenance forces, fire alarm systems and electronic  
503 equipment, or major appliances, all employing the use of electrical current or  
504 connections. The conditions of the license shall appear plainly on the license.

505 (c) Those persons who are employed by a plant, factory, apartment,  
506 condominium, office building or other facility employing maintenance personnel are  
507 encouraged to obtain a master electrician's limited license for maintenance in order to  
508 be able to obtain permits for electrical maintenance work. In addition to the  
509 requirements in section 17-22(a) and (b), the owner or agent for the building or

510 buildings must certify that the applicant is a full-time employee and is covered by  
511 liability insurance in the amount established by section 17-19(c).]

512 **[Sec. 17-23. Same-Journeyman electrician.**

513 (a) Any person who desires to install, repair, maintain or erect electrical  
514 equipment as a journeyman electrician, as defined by this chapter, may at any time  
515 make application to the director to be examined; and the director shall provide the  
516 applicant with the prescribed forms.

517 (b) An applicant for examination for a journeyman electrician license shall  
518 have been regularly and principally employed or engaged in electrical construction,  
519 maintenance, installation and repair of all types of electrical equipment and apparatus,  
520 all coming

521 within the purview of and subject to all provisions of this chapter, for a period  
522 of not less than four (4) years preceding the date of his application, under the  
523 supervision of a master electrician.]

524 **[Sec. 17-24. Examinations.**

525 (a) The written and/or oral examination conducted by the board for either the  
526 master electricians', master electricians' limited, or journeyman electricians' license  
527 shall be based upon standards of the county electrical code.

528 (b) In order to qualify as having passed said examination, the applicant shall  
 529 receive a grade constituting at least seventy (70) percent of the total possible point  
 530 credits in the examination.

531 (c) The use of any unauthorized material or other misbehavior by an  
 532 applicant during his examination shall cause the immediate rejection of his application  
 533 and bar him from reexamination for six (6) months.

534 (d) Examination periods shall be held at least six (6) times each year at  
 535 intervals of not greater than two (2) months. Written notice of the date, hour and place  
 536 of examination shall be mailed to each eligible applicant at least ten (10) days prior to  
 537 the date of the examination.

538 (e) Any applicant who fails to pass any examination or re-examination may  
 539 take a re-examination. The applicant must apply to the director for re-examination and  
 540 pay a fee determined by Executive regulation.

541 (f) All written examinations and applicant records pertaining thereto shall be  
 542 stored under secured conditions within the department and shall be available for  
 543 inspection upon request made to the board by an applicant for a period of six (6) months  
 544 after the date of the examination.]

545 **[17-25] 17-17. Term of [licenses] low-voltage electrician license; renewal.**

546 (a) [All licenses issued under this Chapter after the effective date of this  
 547 legislation shall be] A low-voltage electrician license is valid for two (2)



548 years from the date of issuance and may be renewed upon application to  
549 the Director. Applicants for licenses and renewals [thereof shall pay to  
550 the County a fee for a business license, master electrician's license,  
551 master electrician's limited license and journeyman electrician's license]  
552 must pay a fee as provided for by regulations adopted under method (3)  
553 of Section 2A-15 of this Code by the County Executive.

554 (b) [No person, firm, company, corporation, partnership, owner, lessee or  
555 agent shall be denied the privilege of continuing a contracting business  
556 or maintenance or repair work in the event of death, illness or other  
557 physical disability of the master electrician or master electrician limited  
558 who qualified the person, firm, company, corporation or partnership for  
559 such license, for a period not exceeding one hundred twenty (120) days  
560 following the date of such death, illness or physical disability, provided  
561 said business, maintenance or repair work is conducted under such  
562 qualified supervision as the board deems adequate; and provided that all  
563 requirements concerning bonds and business insurance are first complied  
564 with and the department is notified promptly by the licensee upon such  
565 death, illness or physical disability.]

566 [(c) A person, firm, company, corporation or partnership shall be allowed to  
567 continue a business or to perform maintenance and repair work for a

568 period not exceeding ninety (90) days should the master electrician or  
 569 master electrician limited who qualified the person, firm, company,  
 570 corporation or partnership for such license terminate his services  
 571 therefrom, provided such business, maintenance or repair work is  
 572 conducted under such qualified supervision as the Board deems adequate  
 573 and provided that both of the following requirements are met:

- 574 (1) Insurance requirements are complied with;
- 575 (2) The master electrician or master electrician limited who qualified  
 576 the person, firm, company, corporation or partnership shall notify  
 577 the Board in writing within five (5) days after terminating his  
 578 services therewith; and the person, firm, company, corporation or  
 579 partnership also shall notify the Board in writing within five (5)  
 580 days after the master electrician or master electrician limited has  
 581 terminated his services.]

582 [(d) No] A license issued under this Chapter [shall] may not be assigned or  
 583 transferred.

584 [(e)] (c) [No] A license [shall] must not be renewed [for any person, firm,  
 585 company, corporation or partnership] until all of the requirements of this  
 586 Chapter have been complied with.

587 [(f) Subject to provisions in Section 17-28 of this Chapter, the Department  
 588 may renew licenses under this Chapter to any applicant who at the  
 589 effective date of this Chapter held an existing County electrical  
 590 contractor’s license or electrical contractor’s limited license.]

591 [(g)] (d) Late renewals for [all classes of] a low-voltage electrical [licenses]  
 592 license must be accepted without late filing fee for 10 days after the  
 593 expiration date. If the County receives an application for renewal within  
 594 6 months after a license expires, the license [must] may be renewed upon  
 595 payment of a late filing fee [set by the Director of Permitting Services].  
 596 A renewal application received more than 6 months after an expiration  
 597 date must not be accepted.

598 **[17-26] 17-18. Display; duplicates.**

599 (a) All holders of licenses issued by the State Board of Electricians and under  
 600 this [chapter] Chapter [shall] must display the license in a prominent  
 601 place at their business location and upon demand [shall] must give the  
 602 number of the license to any [inspector of the department] Inspector.

603 (b) [All holders of master electrician, master electrician limited and  
 604 journeyman electrician licenses shall have identification cards issued by  
 605 the department in their possession at all times while performing electrical

606 work within the county and shall display same, upon request, to  
607 authorized department personnel.]

608 [(c) If a low-voltage electrician license issued under this Chapter is lost,  
609 defaced or destroyed, a licensee in good standing may obtain a duplicate  
610 upon filing an application to the [director] Director and payment of the  
611 cost of replacement.

612 **[Sec. 17-27. Apprentice identification card.**

613 (a) Any person who desires to be registered with the county as being engaged  
614 in a program of apprenticeship in connection with his employment with  
615 a licensed electrical contractor, as defined by this chapter, may at any  
616 time make application to the director on forms provided by the  
617 department.

618 (b) The department, upon payment of a nonrefundable fee as set forth in  
619 regulations promulgated pursuant to this chapter, shall issue to the  
620 applicant an apprentice identification card, renewable annually, and shall  
621 require that records be kept regarding the nature of the electrical work  
622 being performed by the apprentice electrician.]

623 **[17-28] 17-19. Revocation or suspension of low-voltage electrician [licenses;**  
624 **appeals] license.**

625            [(a)] The [director] Director may suspend, revoke or refuse to renew [any] a  
626 low-voltage electrician license if the holder has secured such license by  
627 misrepresentation; has failed to correct violations of any provisions of the electrical  
628 code and laws of the county or State of Maryland; failed to maintain the qualifications  
629 required by this subtitle; demonstrated a lack of competence inconsistent with retention  
630 of the license; engaged in fraudulent business activities or in misleadingly advertising  
631 products or services; has been found to have committed as deceptive or unconscionable  
632 trade practice in violation of chapter 11, section 11-4, of the Montgomery County  
633 Code, as amended; violated the provisions of this chapter requiring permits; committed  
634 an act of gross negligence or condoned such an act by an employee; or permitted any  
635 unlicensed or unauthorized person, firm, company, corporation or partnership to obtain  
636 a [certificate card or] permit or perform low-voltage electrical [work] services under  
637 the authority of [his] the holder's license[]; or if where applicable, the holder of a  
638 business license failed to notify any person employed by said licensee for more than  
639 one (1) week of his right to secure an apprentice identification card pursuant to  
640 provisions set forth in section 17-27; or if the holder of a master electrician or master  
641 electrician limited license has failed to be available to supervise electrical work in  
642 accordance with section 17-19(b) of this chapter. In the case of electricians' licenses,  
643 the director shall obtain the concurrence of the board before proceeding with such

644 actions. In the case of business licenses, the director shall consider the advice and  
645 recommendations of the board, if any].

646 [(b) Before recommending the revocation or suspension of an existing  
647 electrician's license or the disapproval of any application to renew such license, the  
648 board shall afford the licensee an opportunity for a hearing before the board to show  
649 cause why the license should not be suspended or revoked or renewal denied. The  
650 board shall give at least ten (10) days' written notice to the licensee by certified mail  
651 or personal service at the last address on file with the director and such notice shall  
652 state the complaint and alleged violation.]

653 [(c) The board may require at any time that a master electrician, master  
654 electrician limited or journeyman electrician be reexamined for good cause and if such  
655 licensee fails to pass the reexamination, his license or licenses may be revoked. A  
656 person whose electrician's license has been revoked in this manner shall become  
657 eligible after ninety (90) days has elapsed from the date of revocation to apply for a  
658 new license. Such application shall be considered a new application and shall be  
659 submitted pursuant to the provisions of this chapter.]

660 [(d) Any person, firm, company, corporation or partnership to whom a license  
661 has been denied or whose license has been revoked or suspended or any such person,  
662 firm, company, corporation or partnership who believes himself aggrieved by any  
663 action of the board or director may appeal to the county board of appeals by filing a

664 notice of such appeal to the county board of appeals by filing a notice of such appeal  
 665 with the clerk of the appeals board within ten (10) days from the date of receipt of  
 666 notice of the action of the board or director. Notice of action of the board or director  
 667 shall be personally served or be mailed by certified mail to the last address on file with  
 668 the board.]

669 **ARTICLE [IV] III. PERMITS.**

670 **[17-29] 17-20. General requirements.**

671 (a) *Required.* Except as provided in section 17-1 of this [chapter] Chapter,  
 672 no electrical equipment which is subject to the provisions of this [chapter]  
 673 Chapter [shall] may be installed, repaired or maintained until a permit  
 674 therefor has been issued by the [department] Department.

675 (b) *Application generally.* Except as provided in subsection (c), [All] all  
 676 applications for permits [shall] must be in writing and in such form as  
 677 may be prescribed by the [department] Department. All applications  
 678 [shall] must be signed by a master electrician licensed by the State Board  
 679 of Electricians or [master] a low-voltage electrician [limited] licensed  
 680 under this Chapter, except those signed by homeowners [pursuant to]  
 681 under section 17-13(c) [and those signed by an officer of the company  
 682 pursuant to section 17-25(b) and (c)]. Each application [shall] must  
 683 describe the work to be done and the location thereof and [shall] must be

684 accompanied by such plans, specifications and schedules as [shall] may  
685 be necessary to determine whether the installation [will be in conformity]  
686 conforms with the provisions of this [chapter] Chapter and, if necessary,  
687 the provisions of [chapter] Chapter 8 of this Code.

688 (c) Application for installation of photovoltaic systems. The Director may  
689 accept reports and recommendations from qualified and approved  
690 photovoltaic system plan review service providers that have  
691 demonstrated that the photovoltaic system plans reviewed reliably  
692 conform to all requirements of this Chapter. Under this subsection,  
693 photovoltaic system includes or incorporates one or more of the  
694 following: photovoltaic panels, energy storage, or residential electric  
695 vehicle charging systems, and any of their related systems or components.

696 (d) Action on application. The Director must examine or cause to be  
697 examined each application, or report and recommendation, for an  
698 electrical permit or an amendment to a permit within a reasonable time  
699 after the application is filed. If the application or the plans do not conform  
700 to all requirements of this Chapter, the Director must reject the  
701 application in writing and specify the reasons for rejecting it. If the  
702 proposed work conforms to all requirements of this Chapter and all other  
703 applicable laws and regulations, the Director must issue a permit for the



704 work as soon as practicable. Before issuing a permit, the person who will  
705 perform the work must demonstrate that he or she is qualified to perform  
706 the proposed electrical work in a capable manner so as not to endanger  
707 the life and property of occupants or neighbors, or property belonging to  
708 any public utility.

709 [(c)](e)*Contents; conformity with permits; conditions; expiration upon non-*  
710 *commencement of work, etc.* Each permit [shall] must describe with  
711 particularity the installation to be done thereunder, and no person [shall]  
712 may install any electrical equipment other than in accordance with the  
713 permit. The permit is a license to proceed with the work and may not be  
714 construed as authority to violate, cancel or set aside any of the provisions  
715 of this Chapter. Each permittee must perform all electrical services and  
716 low-voltage electrical services as required by this Chapter and the  
717 electrical code and regulations adopted under it. The issuance of a permit  
718 does not prevent the Department from thereafter requiring a correction of  
719 errors in plans or in installation or of violations of this Chapter and all  
720 other applicable laws or ordinances specifically referring thereto. The  
721 issuance of any permit is expressly conditioned upon the applicant's  
722 prompt compliance with all stop work orders issued by the Director. All  
723 permits [shall] expire and [be] are null and void unless the work

724 authorized thereunder is commenced within [six (6) months] 180 days  
 725 from the date of issuance or after commencement of work if more than  
 726 180 days pass between inspections; provided, that the [department]  
 727 Department may upon good cause shown extend a permit one or more  
 728 times [from] for a [periods] period not [exceeding] to exceed sixty (60)  
 729 days.

730 [(d)](f)Repairs exempted. No permit shall be required to repair portable  
 731 electrical equipment or lighting fixtures, or to repair or replace sockets,  
 732 receptacles or snap switches, or to make other minor repairs at existing  
 733 outlets, or to repair motors, or to replace motors with motors of the same  
 734 nameplate rating.

735 [(e)](g)Supervision. It shall be unlawful for any licensee to allow the  
 736 installation, repair or maintenance of any electrical equipment requiring  
 737 a permit from the department unless under the immediate and personal  
 738 supervision of either a licensed master or journeyman.

739 **[17-30] 17-21. Emergency work.**

740 When necessary to make emergency repairs or replacements to electrical  
 741 installations, or to make branch circuit extensions for switches, receptacles or the like,  
 742 incidental to such emergency work, such work may be done without a permit;  
 743 provided, that the person doing the same [shall] must possess all licenses required

744 under Article III of this Chapter and first inform the [department] Department either  
745 orally or in writing if the [department's] Department's office is open at the time of such  
746 emergency giving [his] the person's name and address and the address where the work  
747 is to be done, the nature thereof and when it is to be started. Such person shall file an  
748 application for a permit covering such emergency work on the first business day  
749 following the performance thereof.

750 **[17-31] 17-22. Temporary installations.**

751 A temporary permit [shall be] is required in connection with electrical  
752 equipment installed for a temporary use for a period not to exceed [six (6) months] 180  
753 days. Such permit may be extended for an additional period of [six (6) months] 180  
754 days by the [department] Department.

755 **17-23. Stop work order.**

756 (a) In addition to the other provisions set forth in this Chapter, whenever the  
757 Director determines that electrical services or low-voltage electrical  
758 services are being prosecuted in violation of the provisions of this  
759 Chapter, including those conditions upon which the permit has been  
760 issued or in a manner which threatens the safety, health and welfare of  
761 the public, the Director may order the work to be immediately stopped.

762 (b) The stop work order described herein must be in writing and served upon  
 763 the owner of the property involved or the owner's agent or to the person  
 764 doing the work.

765 (c) It is unlawful for any person to continue or permit the continuance of  
 766 work after having been served with a stop work order, except such work  
 767 as the person is directed to perform to remove a violation or unsafe  
 768 condition.

769 **17-24. Revocation of permit.**

770 The Director may revoke a permit or approval issued under this Chapter in case  
 771 of any false statement or misrepresentation of fact in the application or on the plans on  
 772 which the permit or approval was based or in case of any violation of the conditions  
 773 upon which such permit was issued.

774 **ARTICLE [V] IV. INSPECTIONS.**

775 **[17-32] 17-25. Notice upon completion; inspection of installations generally.**

776 It [shall be] is unlawful for the holder of a permit issued hereunder to fail to  
 777 notify the [department] Department within five (5) days of the completion of an  
 778 installation regulated by this [chapter] Chapter. The [department] Department [shall  
 779 cause] must inspect the installation [to be inspected] within forty-eight (48) hours of  
 780 such notice, exclusive of Saturdays, Sundays, and holidays, or as soon thereafter as  
 781 practicable.

782 **[17-33] 17-26. Inspection of covered installations.**

783 (a) When any part of an installation regulated by this [chapter] Chapter is to  
784 be hidden from view by the permanent placement of part of a building,  
785 the holder of the permit [shall] must notify the [department] Department  
786 and such installation [shall] must not be concealed until it has been  
787 inspected and approved by the [department] Department; provided, that  
788 on large installations where the concealment of electrical equipment  
789 proceeds continuously, the holder of the permit shall give the  
790 [department] Department notice thereof so that inspections may be made  
791 periodically during the progress of the work.

792 (b) The [department] Department [shall have the authority to] may remove  
793 or require the removal of any structure or materials that prevent proper  
794 inspection of any electrical equipment.

795 **[Sec. 17-34.]**796 **[17-35] 17-27. Authorization to supply power.**

797 (a) No electric light or power company [shall] may supply electricity or  
798 power to any electrical equipment, for the installation of which a permit  
799 is required under this [chapter] Chapter, and no person shall connect any  
800 such electrical equipment to a supply of electricity or power, except  
801 where authorized by the [department] Department.

802 (b) If after the inspection the [department] Department finds the installation  
 803 to be in conformity with the provisions of this [chapter] Chapter, it [shall]  
 804 must approve the installation and authorize the use of the installation and  
 805 connection to the supply of electricity and power, and [shall] must give  
 806 notification to the electric light or power company supplying the same.  
 807 Such notification may be issued for an entire installation or part thereof.

808 (c) Authorization may be issued for temporary installations authorized  
 809 [pursuant to] under section [17-30] 17-21 of this [chapter] Chapter.  
 810 Temporary installations may be canceled by the [director] Director at any  
 811 time if the installation is not maintained as required by this [chapter]  
 812 Chapter.

813 **[17-36] 17-28. Defective installations and equipment.**

814 (a) If upon inspection any installation for which a permit is required under  
 815 this [chapter] Chapter is found to be in violation of the provisions of this  
 816 [chapter] Chapter, the [department] Department [shall] must notify the  
 817 holder of the permit of the nature of such violation in writing and the same  
 818 [shall] must be corrected within ten (10) days after such notice or such  
 819 other period of time as may be specified by the [department] Department.

820 (b) If the [director] Director finds that any electrical equipment installed  
 821 before or after the enactment of this [chapter] Chapter is dangerous to

822 persons or property because defective or improperly used or installed,  
823 [he] the Director [shall] must notify the owner or lessee of the property  
824 in writing, setting forth the nature of such dangerous condition; and such  
825 person [shall] must make such changes or repairs as are necessary to put  
826 such equipment in a safe condition within such period as may be specified  
827 by the [director] Director.

828 (c) Upon failure of any person to comply with a notice issued pursuant to this  
829 section, the [director] Director [shall] must revoke any permit which has  
830 been issued for the installation of such equipment, [shall] must not  
831 authorize the electrical light or power company to supply electricity, or  
832 [shall] must revoke any such authorization which previously has been  
833 issued.

834 (d) If the equipment or installation is connected to a supply of electricity or  
835 power, the [director] Director [shall] must have the authority to  
836 disconnect the same and [shall] must send notice to the electric light or  
837 power companies to discontinue its supply of electricity or power to such  
838 equipment or installation, and such supply of electricity or power [shall]  
839 must be terminated within twenty-four (24) hours of the receipt of such  
840 notice, without liability therefor on the part of such electric light or power  
841 company.

842 **ARTICLE [VI] V. STANDARDS AND REQUIREMENTS FOR FIRE AND**  
 843 **BURGLAR ALARM SYSTEMS.\***

844  
 845 **[17-37] 17-29. General Requirements.**

846 (a) It [shall be] is the duty of the owner, agent, lessee, occupant, or any other  
 847 person entitled to the beneficial use, rental or control of any building  
 848 which is required under this Code to have a fire alarm system to provide,  
 849 install and maintain therein a fire alarm system with sufficient alarm  
 850 bells, striking stations or automatic detectors, of such type and character  
 851 as contained in regulations adopted by the [county executive] County  
 852 Executive under method (2) of section [2-15] 2A-15 of this Code.

853 (b) All apparatus, materials, equipment and systems used in connection with  
 854 an alarm system, except the wiring thereof, to be installed under the  
 855 provisions of these regulations [shall] must be designed and of a type  
 856 suitable for the voltage and current available and be specifically approved  
 857 for the purpose by the [department] Department before installation. They  
 858 [shall] must be tested and listed by the Underwriters' Laboratories, Inc.,  
 859 for fire alarm services before submission to the [department] Department.

860 (c) It [shall be] is the duty of the owner, agent, lessee, occupant or any other  
 861 person entitled to the beneficial use, rental or control of any building who  
 862 desires a burglar alarm system to install and maintain such a system in



863 accordance with provisions of the National Electrical Code as adopted by  
864 section 17-3 of this [chapter] Chapter.

865 **ARTICLE [VII] VI. STANDARDS AND REQUIREMENTS FOR**  
866 **ELECTRICAL INSTALLATIONS.**

867 **[17-38] 17-30. Standards.**

868 (a) A person must not sell or install electrical equipment which does not  
869 contain the certification of an inspection authority approved by the  
870 Department.

871 (b) The standards and requirements of this [chapter] Chapter [shall] must be  
872 based upon the currently designated edition of the National Electrical  
873 Code and amendments thereto as specified in regulations adopted by the  
874 [county executive] County Executive under method (2) of section 2A-15  
875 of this Code and are hereby declared to be minimum standards and  
876 requirements. Any electrical equipment or installation which is equal or  
877 superior to such standards and requirements [shall] must be deemed to be  
878 in compliance therewith.

879 (c) Except as otherwise provided in this [chapter] Chapter, conformity of  
880 installations of electrical equipment with such regulations adopted  
881 pursuant to section 17-2(b) [shall be] is prima facie evidence that such  
882 installations are reasonably safe to persons and property.

883 (d) A person must not occupy or offer to sell for occupancy any mobile home,  
884 prefabricated or modular dwelling, industrialized building, or similar  
885 structure as defined in the National Electrical Code, without having first  
886 obtained from the manufacturer a certification by the State of Maryland  
887 that the structure [has met] meets the standards contained in regulations  
888 adopted under Sections 12-301 through 12-313 of the Public Safety  
889 Article of the Maryland Code.

890 (e) All electrical installations, including outlets, panel boxes, heat panels and  
891 fixtures subject to damage from flooding must be located, built, and  
892 floodproofed to eliminate or minimize flood damage.

893 **Sec. 17-39. Reserved.**

LEGISLATIVE REQUEST REPORT

BILL: XX-XX  
Electricity Law-Chapter 17

**DESCRIPTION:** This new rewrite of Chapter 17 captures the significant changes brought about by the recent State assumption of the electrical licensing process. The Department of Permitting Services has added a new stand-alone license for low voltage contractors which was not included in the new State regulations, creating a vacuum in Montgomery County low voltage industry. Effectively this rewrite of Chapter 17 deletes three license categories of master, master limited and journeyman and creates the new low voltage license category.

**PROBLEM:** The state does not provide licensing for low voltage contractors. This creates a situation where low voltage contractors in Montgomery County suddenly find themselves operating without a license.

**GOALS AND OBJECTIVES:**

1. To allow all state licensed electrical contractors to apply for electrical permits without any addition licensing requirements.
2. To dissolve the Montgomery County Board of Electrical Examiners and allow state control of examinations.
3. To create a Montgomery County low voltage license obtainable by an International Code Council (ICC) examination.

**COORDINATION:** The Office of the County Executive.

**FISCAL IMPACT:** N/A

**ECONOMIC IMPACT:** N/A

**EVALUATION:** N/A

**EXPERIENCE ELSEWHERE:** In the State of Virginia electrical licenses are controlled and issued by the state.

**SOURCE OF INFORMATION:** DPS

**APPLICATION WITHIN MUNICIPALITIES:** N/A

**PENALTIES:** N/A



OFFICES OF THE COUNTY EXECUTIVE

**Marc Elrich**  
*County Executive*

**MEMORANDUM**

February 25, 2022

TO: Gabe Albornoz, President  
Montgomery County Council

FROM: Marc Elrich, County Executive 

SUBJECT: Chapter 17 – Electricity

This rewrite of Chapter 17 captures the significant changes brought about by the recent State assumption of the electrical licensing process. Effectively this rewrite of Chapter 17 deletes three current electrician license categories of electricians (master, master limited, and journeyman) and creates new low voltage license category. The Department of Permitting Services has added this new stand-alone license for low voltage contractors as it was not included in the new State regulations.

These proposed regulations also eliminate the Montgomery County Board of Electrical Examiners, as its previous functions have been assumed by the state. The main function of the board was to administer examinations to candidates who met the minimum requirements for licensure. The only remaining local license will be the Low Voltage Electrician License and its exam will be administered by ICC (International Code Council); a code administration organization recognized by many jurisdictions across the United States including Montgomery County. Other updates have been made to reflect current practices. The apprentice permit is deleted as it has not been used for many years. A new permitting process is added as a result of the new licensing process. The homeowner's license/permit was retained. By strict definition, a state license is required to provide service for compensation, and the homeowner's license does not fit this category.

**Fiscal Impact Statement**

**Bill 12-22, Electricity – Board of Electrical Examiners – Licenses – Permit Requirements**

**1. Legislative Summary.**

Bill 12-22 conforms the County Code with the changes brought about by the recent State assumption of the electrical licensing process. The Bill deletes from the County Code three license categories for master, master-limited, and journeyman electricians. Furthermore, it creates a new low-voltage electrician license for low-voltage contractors which was not included in the new State regulations.

**2. An estimate of changes in County revenues and expenditures regardless of whether the revenues or expenditures are assumed in the recommended or approved budget. Includes source of information, assumptions, and methodologies used.**

Based on historical revenue averages from this source, it is estimated that there could be a net loss of approximately \$200,000 a year, even with some new revenue generated from the new low-voltage license. This estimated net revenue loss is 0.54 percent of DPS’ FY22 Approved Revenue Budget of \$36.9 million.

**3. Revenue and expenditure estimates covering at least the next 6 fiscal years.**

|              | <u>FY23</u>  | <u>FY24</u> | <u>FY25</u> | <u>FY26</u> | <u>FY27</u> | <u>FY28</u> | <u>6-Year Total</u> |
|--------------|--------------|-------------|-------------|-------------|-------------|-------------|---------------------|
| Revenue Loss | \$ (200,000) | \$(200,000) | \$(200,000) | \$(200,000) | \$(200,000) | \$(200,000) | \$(1,200,000)       |

**4. An actuarial analysis through the entire amortization period for each bill that would affect retiree pension or group insurance costs.**

The Bill is not expected to impact retiree pension or group insurance costs.

**5. An estimate of expenditures related to County’s information technology (IT) systems, including Enterprise Resource Planning (ERP) systems.**

The Bill is not expected to increase County IT or ERP expenditures.

**6. Later actions that may affect future revenue and expenditures if the bill authorizes future spending.**

The Bill does not authorize future spending.

**7. An estimate of the staff time needed to implement the bill.**

Implementation of the Bill is not expected to materially impact staff time or resources, since a DPS position is not exclusively dedicated to issuing electrician licenses. Rather, this workload has been shared amongst several DPS staff. Removal of the license workload will allow these staff members to focus on filling other workload gaps and expediting the review of other DPS issued licenses and permits. DPS staff will continue to verify State issued electrician licenses as part of their plan review and permit issuing process.

**8. An explanation of how the addition of new staff responsibilities would affect other duties.**

See answer to Question 7.

**9. An estimate of costs when an additional appropriation is needed.**

Not applicable.

**10. A description of any variable that could affect revenue and cost estimates.**

Estimated revenue losses are based on historical trends and projections of low voltage licenses to be issued. There are not any expected variables that would cause these estimates to significantly increase or decrease.

**11. Ranges of revenue or expenditures that are uncertain or difficult to project.**

Not applicable.

**12. If a bill is likely to have no fiscal impact, why that is the case.**


Not applicable.

**13. Other fiscal impacts or comments.**

Not applicable.

**14. The following contributed to and concurred with this analysis:**

- Ehsan Motazed, Department of Permitting Services
- Rick Merck, Department of Permitting Services
- Simin Rasolee, Department of Permitting Services
- Rafael Pumarejo Murphy, Office of Management and Budget

  
\_\_\_\_\_  
Jennifer R. Bryant, Director  
Office of Management and Budget

06/22/2022  
\_\_\_\_\_  
Date

# Racial Equity and Social Justice (RESJ) Impact Statement

Office of Legislative Oversight

## **BILL 12-22: ELECTRICITY – BOARD OF ELECTRICAL EXAMINERS – LICENSES – PERMIT REQUIREMENTS**

### **SUMMARY**

The Office of Legislative Oversight (OLO) anticipates that Bill 12-22 will have a little to no impact on racial equity and social justice (RESJ) in the County, as it does not make any fundamental changes that will affect the composition of electricians in the County.

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### **PURPOSE OF RESJ IMPACT STATEMENT**

The purpose of racial equity and social justice (RESJ) impact statements is to evaluate the anticipated impact of legislation on racial equity and social justice in the County. Racial equity and social justice refer to a **process** that focuses on centering the needs, leadership, and power of communities of color and low-income communities with a **goal** of eliminating racial and social inequities.<sup>1</sup> Achieving racial equity and social justice usually requires seeing, thinking, and working differently to address the racial and social harms that have caused racial and social inequities.<sup>2</sup>

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### **PURPOSE OF BILL 12-22**

As described by the Occupational Outlook Handbook, “electricians install, maintain, and repair electrical power, communications, lighting, and control systems.”<sup>3</sup> Electricians are among the construction skilled trades, along with occupations such as plumbers, carpenters, and bricklayers.<sup>4</sup> Typically, electricians have at least a high school diploma or equivalent, and licensure can be obtained for the profession through apprenticeship or attending a technical school.<sup>5</sup> In 2021, electricians earned a median pay of \$60,040 annually, higher than the median pay of \$45,760 for all workers.<sup>6</sup>

The purpose of Bill 12-22 is to rewrite ‘Chapter 17 – Electricity’ of the County Code to conform with changes in State law to the licensing process for electricians. The Maryland Electricians Act, enacted in July 2021, authorized the State to issue licenses for apprentice electrician, journeyman electrician, and master electrician. Among several changes, the Bill if enacted achieves the following:<sup>7</sup>

- Removes licensing categories that have been assumed by the state, effectively allowing the County to recognize state-licensed electricians in the permitting process without any additional licensing requirements.
- Creates a new Low Voltage Electrician License category in the County, which is not provided by the state.
- Eliminates the Montgomery County Board of Electrical Examiners since its primary function of administering licensure examinations has now been assumed by the state. Examinations for the Low Voltage Electrician License will be administered by the International Code Council (ICC).
- Allows for a third-party to review permit applications for simple residential rooftop solar projects to streamline the permitting process.

Bill 12-22 was introduced to the Council on June 14, 2022.

July 1, 2022

# RESJ Impact Statement

## Bill 12-22

### SKILLED TRADES AND RACIAL EQUITY

Careers in skilled trades such as electricians can offer a pathway to financial security that does not require obtaining a college degree. However, a history of racism in apprenticeships established racial disparities that are present in skilled trade employment to this day. As described by Jobs for the Future (JFF):<sup>8</sup>

“The [National Apprenticeship Act of 1937] was created to provide protections for apprentices, and it established the labor standards, national certification standards, and safeguards for apprentices’ welfare that a work-based learning program must adopt in order to be considered a Registered Apprenticeship. However, Black workers were still subject to racist and exclusionary policies, such as Jim Crow laws, upheld by states and cities, employers, and labor unions, reflecting the racist views of the times. As a result, they were still significantly underrepresented in most apprenticeships after the Apprenticeship Act was passed. When a Black worker was admitted into an apprenticeship, it was most commonly for a low-wage, less-skilled position.”

Research suggests that Black workers are still generally underrepresented in skilled trades,<sup>9</sup> a pattern that is evident in electrician occupations. Nationally, while 12.3 percent of the employed are Black, 6.7 percent of electricians are Black.<sup>10</sup> White people are overrepresented as electricians (77.5 percent of employed and 88.3 percent of electricians), while Latinx people are proportionally represented as electricians (18.0 percent of employed and 22.9 percent of electricians). Local data summarized in Table 1 suggests that Latinx workers are overrepresented as electricians in the County. Conversely, Black and Asian workers are underrepresented as electricians, while White workers are proportionally represented.

**Table 1: Percent of Residents 18 Years and Over and Percent of Electricians by Race and Ethnicity, Montgomery County, Maryland**

| Race and ethnicity <sup>11</sup> | Percent of Residents 18 Years and Over | Percent of Employees in Electrician Occupations |
|----------------------------------|--|---|
| Asian                            | 16.0                                   | 5.7   |
| Black                            | 18.1                                   | 9.8   |
| White                            | 45.6                                   | 46.7  |
| Latinx                           | 18.6                                   | 54.9  |

Source: 2020 Decennial Census (Table P3, P4), OLO Analysis of 2020 American Community Survey Public Use Microdata Sample (PUMS), Census Bureau.

Of note, skilled trades are also marked by a significant gender disparity. Nationally, women are 80% less likely to work a craft job than men.<sup>12</sup> A study examining the experiences of Black tradeswomen noted patterns of racial and gender microaggressions experienced throughout their careers.<sup>13</sup> A 2021 report from the PBS NewsHour highlights the continuing discrimination experienced by Black Americans and women in skilled trades.<sup>14</sup>



# RESJ Impact Statement

## Bill 12-22

### ANTICIPATED RESJ IMPACTS

Bill 12-22 primarily codifies changes made to the electrician licensing process at the state-level. One of the primary implications of the Bill is that it will eliminate the requirement for state-licensed electricians to reciprocate their license with the County, a practice that has been in place since state law became effective in July 2021. While the changes will generally make it easier for electricians to operate in the County, the Bill does not make any fundamental changes to electrician training or licensing, factors that would potentially have RESJ implications for the people currently employed as electricians or those potentially entering the profession. Additionally, while the Bill adds a new licensing category for Low Voltage Electrician, it is not clear that this addition will have any meaningful impact on the composition of electricians in the County. Thus, OLO anticipates that Bill 12-22 will have a little to no impact on RESJ in the County.

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### RECOMMENDED AMENDMENTS

The RESJ Act requires OLO to consider whether recommended amendments to bills aimed at narrowing racial and social inequities are warranted in developing RESJ impact statements.<sup>15</sup> OLO does not offer recommended amendments for this Bill, as its limited scope would not address racial and social inequities in the County.

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### CAVEATS

Two caveats to this racial equity and social justice impact statement should be noted. First, predicting the impact of legislation on racial equity and social justice is a challenging, analytical endeavor due to data limitations, uncertainty, and other factors. Second, this RESJ impact statement is intended to inform the legislative process rather than determine whether the Council should enact legislation. Thus, any conclusion made in this statement does not represent OLO's endorsement of, or objection to, the bill under consideration.

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### CONTRIBUTIONS

OLO staffer Janmarie Peña, Performance Management and Data Analyst, drafted this RESJ impact statement.

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<sup>1</sup> Definition of racial equity and social justice adopted from “Applying a Racial Equity Lens into Federal Nutrition Programs” by Marlysa Gamblin, et.al. Bread for the World, and from Racial Equity Tools. <https://www.racialequitytools.org/glossary>

<sup>2</sup> Ibid

<sup>3</sup> “Electricians,” Occupational Outlook Handbook, Bureau of Labor Statistics, U.S. Department of Labor Last Modified April 18, 2022. <https://www.bls.gov/ooh/construction-and-extraction/electricians.htm>

<sup>4</sup> “Skilled Trades,” College and Career Access Center, Accessed June 30, 2022. <https://www.jcisid.org/domain/307>

<sup>5</sup> “Electricians,” Occupational Outlook Handbook

<sup>6</sup> Ibid

<sup>7</sup> Bill 12-22, Electricity – Board of Electrical Examiners – Licenses – Permit Requirements, Montgomery County, Maryland, Introduced June 14, 2022. [https://www.montgomerycountymd.gov/council/Resources/Files/agenda/col/2022/20220614/20220614\\_3D.pdf](https://www.montgomerycountymd.gov/council/Resources/Files/agenda/col/2022/20220614/20220614_3D.pdf)

<sup>8</sup> Eric M. Seleznow and Cassandra McGhee, “Together We Can Increase Black Participation in Apprenticeship,” Center for Apprenticeship & Work-Based Learning, Jobs for the Future, February 25, 2021. <https://www.jff.org/what-we-do/impact-stories/center-for-apprenticeship-and-work-based-learning/together-we-can-increase-black-participation-apprenticeship/>

# RESJ Impact Statement

## Bill 12-22

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<sup>9</sup> Eric Hoyt and J.D. Swerzenski, “Who’s Getting the Skilled Blue Collar Jobs? A Look Into the Top and Bottom 5 States,” Center for Employment Equity, University of Massachusetts Amherst, Accessed June 30, 2022.

<https://www.umass.edu/employmentequity/who%E2%80%99s-getting-skilled-blue-collar-jobs-look-top-and-bottom-5-states>

<sup>10</sup> “Employed Persons by Detailed Occupation, Sex, Race, and Hispanic or Latino Ethnicity,” Bureau of Labor Statistics, U.S. Department of Labor, Last Modified January 20, 2022. <https://www.bls.gov/cps/cpsaat11.htm>

<sup>11</sup> Latinx is an ethnicity rather than a race. Therefore, Latinx people are included in multiple racial groups throughout this impact statement, unless where otherwise noted.

<sup>12</sup> Eric Hoyt and J.D. Swerzenski, “Who’s Getting the Skilled Blue Collar Jobs? A Look Into the Top and Bottom 5 States”

<sup>13</sup> Roberta Suzette Hunte, “‘My Walk has Never been Average’: Black Tradeswomen Negotiating Intersections of Race and Gender in Long-Term Careers in the U.S. Building Trades,” Doctoral Thesis: Department of Peace and Conflict Studies, University of Manitoba, Winnipeg 2012. [https://central.bac-lac.gc.ca/.item?id=TC-MWU-8860&op=pdf&app=Library&oclc\\_number=1032914121](https://central.bac-lac.gc.ca/.item?id=TC-MWU-8860&op=pdf&app=Library&oclc_number=1032914121)

<sup>14</sup> “Black Americans and Women Continue to Face Discrimination in the Skilled Trades,” PBS NewsHour, March 12, 2021. <https://www.pbs.org/newshour/show/black-americans-and-women-continue-to-face-discrimination-in-skilled-trades>

<sup>15</sup> Bill 27-19, Administration – Human Rights – Office of Racial Equity and Social Justice – Racial Equity and Social Justice Advisory Committee – Established, Montgomery County Council