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Offered by:

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To: Subst. House Bill No. 6732

File No. 204

Cal. No. 196

**"AN ACT CONCERNING OCCUPATIONAL LICENSES FOR
PERSONS ENGAGED IN SOLAR-RELATED WORK."**

1 Strike everything after the enacting clause and substitute the
2 following in lieu thereof:

3 "Section 1. Section 20-330 of the general statutes is repealed and the
4 following is substituted in lieu thereof (*Effective October 1, 2005*):

5 As used in this chapter:

6 (1) "Contractor" means any person regularly offering to the general
7 public services of such person or such person's employees in the field
8 of electrical work, plumbing and piping work, solar work, heating,
9 piping, cooling and sheet metal work, fire protection sprinkler systems
10 work, elevator installation, repair and maintenance work, irrigation
11 work, automotive glass work or flat glass work, as defined in this
12 section;

13 (2) "Electrical work" means the installation, erection, maintenance,
14 alteration or repair of any wire, cable, conduit, busway, raceway,
15 support, insulator, conductor, appliance, apparatus, fixture or
16 equipment that generates, transforms, transmits or uses electrical
17 energy for light, heat, power or other purposes, but does not include
18 low voltage wiring, not exceeding twenty-four volts, used within a
19 lawn sprinkler system;

20 (3) "Plumbing and piping work" means the installation, repair,
21 replacement, alteration or maintenance of gas, water and associated
22 fixtures, laboratory equipment, sanitary equipment, other than
23 subsurface sewage disposal systems, fire prevention apparatus, all
24 water systems for human usage, sewage treatment facilities and all
25 associated fittings within a building and includes lateral storm and
26 sanitary lines from buildings to the mains, process piping, swimming
27 pools and pumping equipment, and includes making connections to
28 back flow prevention devices, and includes low voltage wiring, not
29 exceeding twenty-four volts, used within a lawn sprinkler system, but
30 does not include (A) solar work, except for the repair of those portions
31 of a solar hot water heating system that include the basic domestic hot
32 water tank and the tie-in to the potable water system, (B) the
33 installation, repair, replacement, alteration or maintenance of fire
34 prevention apparatus within a structure, except for standpipes that are
35 not connected to sprinkler systems, and (C) medical gas and vacuum
36 systems work. For the purposes of this subdivision, "process piping"
37 means piping or tubing that conveys liquid or gas that is used directly
38 in the production of a product for human consumption;

39 [(4) "Solar work" means the installation, repair, replacement,
40 alteration or maintenance of an active, passive or hybrid solar hot
41 water heating system;]

42 (4) "Solar thermal work" means the installation, erection, repair,
43 replacement, alteration, or maintenance of active, passive and hybrid
44 solar systems that directly convert ambient energy into heat or convey,
45 store or distribute such ambient energy;

46 (5) "Heating, piping and cooling work" means (A) the installation,
47 repair, replacement, maintenance or alteration of any apparatus for
48 piping, appliances, devices or accessories for heating systems,
49 including sheet metal work, and (B) the installation, repair,
50 replacement, maintenance or alteration of air conditioning and
51 refrigeration systems, boilers, including apparatus and piping for the
52 generation or conveyance of steam and associated pumping
53 equipment and process piping. Heating, piping and cooling work does
54 not include solar work or medical gas and vacuum systems work. For
55 the purposes of this subdivision, "process piping" means piping or
56 tubing that conveys liquid or gas that is used directly in the production
57 of a product for human consumption;

58 (6) "Apprentice" means any person registered with the Labor
59 Department for the purpose of learning a skilled trade;

60 (7) "Elevator installation, repair and maintenance work" means the
61 installation, erection, maintenance and repair of all types of elevators,
62 dumb waiters, escalators, and moving walks and all mechanical
63 equipment, fittings, associated piping and wiring from a source of
64 supply brought to the equipment room by an unlimited electrical
65 contractor for all types of machines used to hoist or convey persons or
66 materials, but does not include temporary hoisting machines used for
67 hoisting materials in connection with any construction job or project;

68 (8) "Elevator maintenance" means the lubrication, inspection and
69 replacement of controls, hoistway and car parts;

70 (9) "Fire protection sprinkler systems work" means the layout, on-
71 site fabrication, installation, alteration, maintenance or repair of any
72 automatic or manual sprinkler system designed for the protection of
73 the interior or exterior of a building or structure from fire, or any
74 piping or tubing and appurtenances and equipment pertaining to such
75 system including overhead and underground water mains, fire
76 hydrants and hydrant mains, standpipes and hose connections to
77 sprinkler systems, sprinkler tank heaters excluding electrical wiring,

78 air lines and thermal systems used in connection with sprinkler and
79 alarm systems connected thereto, foam extinguishing systems or
80 special hazard systems including water spray, foam, carbon dioxide or
81 dry chemical systems, halon and other liquid or gas fire suppression
82 systems, but does not include (A) any engineering design work
83 connected with the layout of fire protection sprinkler systems, or (B)
84 any work performed by employees of or contractors hired by a public
85 water system, as defined in subsection (a) of section 25-33d;

86 (10) "State Fire Marshal" means the State Fire Marshal or any
87 member of the Division of State Police to whom the Commissioner of
88 Public Safety has delegated powers under section 29-291;

89 (11) "Journeyman sprinkler fitter" means a specialized pipe fitter
90 craftsman, experienced and skilled in the installation, alteration,
91 maintenance and repair of fire protection sprinkler systems;

92 (12) "Irrigation work" means making the connections to back flow
93 prevention devices, and low voltage wiring, not exceeding twenty-four
94 volts, used within a lawn sprinkler system;

95 (13) "Sheet metal work" means the installation, erection,
96 replacement, repair or alteration of duct work systems, both ferrous
97 and nonferrous;

98 (14) "Journeyman sheet metal worker" means an experienced
99 craftsman skilled in the installation, erection, replacement, repair or
100 alteration of duct work systems, both ferrous and nonferrous;

101 (15) "Automotive glass work" means installing, maintaining or
102 repairing fixed glass in motor vehicles;

103 (16) "Flat glass work" means installing, maintaining or repairing
104 glass in residential or commercial structures; [and]

105 (17) "Medical gas and vacuum systems work" means the work and
106 practice, materials, instrumentation and fixtures used in the
107 construction, installation, alteration, extension, removal, repair,

108 maintenance or renovation of gas and vacuum systems and equipment
109 used solely to transport gases for medical purposes and to remove
110 liquids, air-gases or solids from such systems;

111 (18) "Solar electricity work" means the installation, erection, repair,
112 replacement, alteration, or maintenance of photovoltaic or wind
113 generation equipment used to distribute or store ambient energy for
114 heat, light, power or other purposes to a point immediately inside any
115 structure or adjacent to an end use;

116 (19) "Active solar system" means a system that uses an external
117 source of energy to power a motor-driven fan or pump to force the
118 circulation of a fluid through solar heat collectors and which removes
119 the sun's heat from the collectors and transports such heat to a location
120 where it may be used or stored;

121 (20) "Passive solar system" means a system that is capable of
122 collecting or storing the sun's energy as heat without the use of a
123 motor-driven fan or pump; and

124 (21) "Hybrid solar system" means a system that contains
125 components of both an active solar system and a passive solar system.

126 Sec. 2. Subsection (b) of section 20-334a of the general statutes is
127 repealed and the following is substituted in lieu thereof (*Effective*
128 *October 1, 2005*):

129 (b) The following licenses for solar thermal work may be issued by
130 the department, upon authorization of the examining board for
131 heating, piping, cooling and sheet metal work, under the provisions of
132 section 20-333, including an examination on solar work:

133 (1) A solar thermal contractor's license may be issued to any person
134 who (A) not later than July 1, 1984, (i) has been issued a P-1, P-3, S-1,
135 S-3, S-5, S-7, D-1 or D-3 license under subdivision (1) of subsection (a)
136 of this section or installs at least six fully operational solar hot water
137 heating systems, and (ii) qualifies for a solar thermal contractor's

138 license under section 20-333, or (B) has served as a solar thermal
139 journeyman for not less than two years.

140 (2) A solar thermal journeyman's license may be issued to any
141 person who (A) not later than July 1, 1984, (i) is issued a P-2, P-4, S-2,
142 S-4, S-6, S-8, D-2 or D-4 license under subdivision (2) of subsection (a)
143 of this section, and (ii) qualifies for a solar thermal journeyman's
144 license under section 20-333, (B) after July 1, 1984, is issued a P-2, P-4,
145 S-2, S-4, S-6, S-8, D-2 or D-4 license under subdivision (2) of subsection
146 (a) of this section and whose bona fide apprenticeship program
147 includes instruction in solar thermal work, or (C) after July 1, 1984,
148 completes a bona fide solar thermal work apprenticeship program and
149 has not less than two years' experience in solar thermal work. A solar
150 thermal journeyman may work only under the supervision of a
151 licensed solar thermal contractor.

152 (3) A solar thermal apprentice's permit may be issued for the
153 performance of solar thermal work for the purpose of training. Such
154 work may be performed only under the supervision of a licensed solar
155 thermal contractor or journeyman.

156 Sec. 3. Section 20-334b of the general statutes is repealed and the
157 following is substituted in lieu thereof (*Effective October 1, 2005*):

158 Any apprenticeship program established for the purpose of
159 providing education and training for persons seeking licensure for
160 plumbing and piping work or for heating, piping and cooling work
161 shall provide all such persons entering the program with education
162 and training in solar thermal work.

163 Sec. 4. Section 20-340 of the general statutes is repealed and the
164 following is substituted in lieu thereof (*Effective October 1, 2005*):

165 The provisions of this chapter shall not apply to: (1) Persons
166 employed by any federal, state or municipal agency; (2) employees of
167 any public service company regulated by the Department of Public
168 Utility Control or of any corporate affiliate of any such company when

169 the work performed by such affiliate is on behalf of a public service
170 company, but in either case only if the work performed is in
171 connection with the rendition of public utility service, including the
172 installation or maintenance of wire for community antenna television
173 service, or is in connection with the installation or maintenance of wire
174 or telephone sets for single-line telephone service located inside the
175 premises of a consumer; (3) employees of any municipal corporation
176 specially chartered by this state; (4) employees of any contractor while
177 such contractor is performing electrical-line or emergency work for
178 any public service company; (5) persons engaged in the installation,
179 maintenance, repair and service of electrical or other appliances of a
180 size customarily used for domestic use where such installation
181 commences at an outlet receptacle or connection previously installed
182 by persons licensed to do the same and maintenance, repair and
183 service is confined to the appliance itself and its internal operation; (6)
184 employees of industrial firms whose main duties concern the
185 maintenance of the electrical work, plumbing and piping work, solar
186 thermal work, heating, piping, cooling work, sheet metal work,
187 elevator installation, repair and maintenance work, automotive glass
188 work or flat glass work of such firm on its own premises or on
189 premises leased by it for its own use; (7) employees of industrial firms
190 when such employees' main duties concern the fabrication of glass
191 products or electrical, plumbing and piping, fire protection sprinkler
192 systems, solar, heating, piping, cooling, sheet metal or elevator
193 installation, repair and maintenance equipment used in the production
194 of goods sold by industrial firms, except for products, electrical,
195 plumbing and piping systems and repair and maintenance equipment
196 used directly in the production of a product for human consumption;
197 (8) persons performing work necessary to the manufacture or repair of
198 any apparatus, appliances, fixtures, equipment or devices produced by
199 it for sale or lease; (9) employees of stage and theatrical companies
200 performing the operation, installation and maintenance of electrical
201 equipment if such installation commences at an outlet receptacle or
202 connection previously installed by persons licensed to make such
203 installation; (10) employees of carnivals, circuses or similar transient

204 amusement shows who install electrical work, provided such
205 installation shall be subject to the approval of the State Fire Marshal
206 prior to use as otherwise provided by law and shall comply with
207 applicable municipal ordinances and regulations; (11) persons engaged
208 in the installation, maintenance, repair and service of glass or electrical,
209 plumbing, fire protection sprinkler systems, solar, heating, piping,
210 cooling and sheet metal equipment in and about single-family
211 residences owned and occupied or to be occupied by such persons;
212 provided any such installation, maintenance and repair shall be subject
213 to inspection and approval by the building official of the municipality
214 in which such residence is located and shall conform to the
215 requirements of the State Building Code; (12) persons who install,
216 maintain or repair glass in a motor vehicle owned or leased by such
217 persons; (13) persons or entities holding themselves out to be retail
218 sellers of glass products, but not such persons or entities that also
219 engage in automotive glass work or flat glass work; (14) persons who
220 install preglazed or preassembled windows or doors in residential or
221 commercial buildings; (15) persons registered under chapter 400 who
222 install safety-backed mirror products or repair or replace flat glass in
223 sizes not greater than thirty square feet in residential buildings; and
224 (16) sheet metal work performed in residential buildings consisting of
225 six units or less by new home construction contractors registered
226 pursuant to chapter 399a, by home improvement contractors registered
227 pursuant to chapter 400 or by persons licensed pursuant to this
228 chapter, when such work is limited to exhaust systems installed for
229 hoods and fans in kitchens and baths, clothes dryer exhaust systems,
230 radon vent systems, fireplaces, fireplace flues, masonry chimneys or
231 prefabricated metal chimneys rated by the Underwriter's Laboratory
232 or installation of stand-alone appliances including wood, pellet or
233 other stand-alone stoves that are installed in residential buildings by
234 such contractors or persons.

235 Sec. 5. (NEW) (*Effective October 1, 2005*) The Electrical Work Board
236 shall recommend regulations consistent with the provisions of sections
237 20-332 and 21a-7 of the general statutes to establish solar electric

238 contractor, journeyman and apprentice licenses, for solar electricity
239 work, as defined in section 20-330 of the general statutes, as amended
240 by this act, which shall be adopted by the Commissioner of Consumer
241 Protection, in accordance with the provisions of chapter 54 of the
242 general statutes.

243 Sec. 6. Subdivision (4) of section 20-419 of the general statutes is
244 repealed and the following is substituted in lieu thereof (*Effective*
245 *October 1, 2005*):

246 (4) "Home improvement" includes, but is not limited to, the repair,
247 replacement, remodeling, alteration, conversion, modernization,
248 improvement, rehabilitation or sandblasting of, or addition to any land
249 or building or that portion thereof which is used or designed to be
250 used as a private residence, dwelling place or residential rental
251 property, or the construction, replacement, installation or
252 improvement of driveways, swimming pools, porches, garages, roofs,
253 siding, insulation, [solar energy systems] sunrooms, flooring, patios,
254 landscaping, fences, doors and windows and waterproofing in
255 connection with such land or building or that portion thereof which is
256 used or designed to be used as a private residence, dwelling place or
257 residential rental property or the removal or replacement of a
258 residential underground heating oil storage tank system, in which the
259 total cash price for all work agreed upon between the contractor and
260 owner exceeds two hundred dollars. "Home improvement" does not
261 include: (A) The construction of a new home; (B) the sale of goods by a
262 seller who neither arranges to perform nor performs, directly or
263 indirectly, any work or labor in connection with the installation or
264 application of the goods or materials; (C) the sale of goods or services
265 furnished for commercial or business use or for resale, provided
266 commercial or business use does not include use as residential rental
267 property; (D) the sale of appliances, such as stoves, refrigerators,
268 freezers, room air conditioners and others which are designed for and
269 are easily removable from the premises without material alteration
270 thereof; and (E) any work performed without compensation by the
271 owner on his own private residence or residential rental property."

This act shall take effect as follows and shall amend the following sections:		
Section 1	<i>October 1, 2005</i>	20-330
Sec. 2	<i>October 1, 2005</i>	20-334a(b)
Sec. 3	<i>October 1, 2005</i>	20-334b
Sec. 4	<i>October 1, 2005</i>	20-340
Sec. 5	<i>October 1, 2005</i>	New section
Sec. 6	<i>October 1, 2005</i>	20-419(4)