

Reported Recommending.....
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 Passed House.....
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 Failed to Pass Senate.....

March 24, 1937.
 Passed on File.

House File 505. ←
 By LABOR COMMITTEE.

*Licensing
 Engineers
 Safety Appliances*

A BILL FOR

An Act to amend section five thousand seven hundred forty-three (5743), Code, 1935, and chapter seventy-three (73), Code, 1935, to insure the better protection of life and property from steam boiler and refrigeration plant explosions and from the dangers of other motive power by preventing persons from having charge of or operating certain steam boilers, refrigeration plants, engines, and motive power equipment, and appurtenances thereto, without a license issued for that purpose, to fix and determine the conditions and qualifications under which persons may be licensed for such purposes, to provide for the issuance of such licenses, and the enforcement of this act by fine or imprisonment.

Be It Enacted by the General Assembly of the State of Iowa:

1 Section 1. Section five thousand seven hundred forty-three
 2 (5743), Code, 1935, is hereby amended by striking from said
 3 section all of subsection two (2) thereof.

1 Sec. 2. Chapter seventy-three (73), Code, 1935, is hereby
 2 amended by inserting after section one thousand four hundred
 3 ninety-five (1495), a new section to be designated as section
 4 one thousand four hundred ninety-five-a one (1495-a1), which
 5 shall read as follows:

6 "1495-a1. Licensing power engineers and firemen.

7 1. No person shall have charge of or operate a steam boiler

8 or its appurtenance, refrigeration plant, engine, or any other
9 motive power equipment except boilers and engines and any other
10 motive power equipment upon locomotives, motor vehicles, boilers
11 and engines in private residences, boilers and engines and
12 any other motive power used for coal mining and mining, boilers
13 and engines and any other motive power equipment used for agri-
14 cultural purposes exclusively, and those under the jurisdiction
15 of the United States, and boilers, engines, or any other motive
16 power equipment, of less than nine horse power, and refrigera-
17 tion plants of less than fifteen tons unless he holds a license
18 as hereinafter provided. The owner or user of a steam boiler
19 or its appurtenances, engine, refrigeration plant, or any other
20 motive power equipment other than those above excepted, shall
21 not operate or cause to be operated a steam boiler or its appur-
22 tenances, engine, refrigeration plant, or any other motive power
23 equipment unless the person in charge of and operating it is
24 duly licensed, as hereinafter provided; provided that in manu-
25 facturing plants an unlicensed person may operate, under a
26 licensed person on duty, an appurtenance of any of the aforesaid
27 equipment of not more than one hundred fifty horse power, and
28 in any plant one registered apprentice may be employed under the
29 personal direction of each licensed person in the plant on duty
30 to operate the appurtenance of a boiler or engine.

31 2. The horse power of a boiler shall be ascertained upon a
32 basis of ten square feet of heating surface equal to one horse
33 power. The horse power of a reciprocating steam engine shall be

34 ascertained upon the basis of a mean effective pressure of forty
35 pounds per square inch of piston for a simple engine, fifty
36 pounds for a condensing engine, and seventy pounds for a compound
37 engine, calculated upon the area of the high pressure piston. A
38 variable speed engine shall be rated at its designated mean speed.
39 A steam turbine engine shall be rated at less than nine horse power
40 when the external diameter of the steam supply pipe does not
41 exceed one and three-fourths inches, at fifty horse power when
42 it exceeds one and three-fourths inches and does not exceed
43 three and one-half inches, and at one hundred fifty horse power
44 when it exceeds three and one-half inches and does not exceed
45 five inches. The horse power of other engines and all other motive
46 power equipment shall be rated according to their manufacturer's
47 rating capacity.

48 3. Licenses shall be granted according to the competence
49 of the applicant and shall be classified as follows:

50 First Class: To have charge of and operate any power, heat-
51 ing, or refrigeration plant, and any other motive power plant
52 or equipment.

53 Second Class: To have charge of and operate any boiler or
54 boilers, and to have charge of and operate engines, and any other
55 motive power equipment, no one of which shall exceed one hundred
56 fifty horse power, and refrigeration plants of not more than fifty
57 tons or to operate a first class plant under the engineer in direct
58 charge thereof.

59 Third Class: To have charge of and operate a boiler or

60 boilers not exceeding in the aggregate of one hundred horse
61 power, and engines and any other motive power equipment not
62 exceeding fifty horse power each, and refrigeration plants of
63 not more than twenty-five tons or to operate a second class
64 plant under the engineer in direct charge thereof.

65 Hoisting Engineers: To have charge of and operate hoist-
66 ing and portable boilers and engines irrespective of kind of
67 power.

68 Firemen's Licenses: Firemen to have charge of and operate
69 any boiler or boilers used for heating purposes exclusively
70 where the safety valve or valves are set to blow at a pressure
71 not exceeding fifteen pounds to the square inch and of less than
72 fifty horse power, and to operate any boiler or boilers under the
73 engineer in direct charge thereof.

74 Registered Apprentice: Registered apprentice to operate
75 the appurtenance of a boiler or engine under the personal direc-
76 tion of a licensed person on duty.

77 4. Every person, except as provided in this chapter for
78 operation of engines in manufacturing plants, who operates the
79 appurtenance of a boiler or engine, refrigeration plants, or
80 any other motive power equipment under the personal direction of
81 a licensed person shall register as an apprentice with the state
82 labor commissioner and shall furnish said labor commissioner an
83 affidavit showing the name of the licensed person under whose
84 personal direction he is operating and the date when he first
85 commenced operating under said licensed person, and the type

86 of engine or engines, he is operating and such other informa-
87 tion as the board deems necessary.

88 5. To be eligible for examination for a fireman's license,
89 a person must have been employed as a registered apprentice for
90 not less than one year. To be eligible for a hoisting engineer's
91 license, a person must have been employed as a licensed fire-
92 man for not less than one year or as an oiler or engineer's
93 apprentice for not less than one year. To be eligible for a
94 third class engineer's license, a person must have been employed
95 as a licensed fireman for not less than one year. To be eligi-
96 ble for a second class engineer's license, a person must have
97 been employed as a third class engineer for not less than two
98 years, except that any person graduated as a mechanical engi-
99 neer from a duly recognized school of technology who has been
100 employed for not less than one year as a registered apprentice
101 or as a fireman or engineer in any other state or country shall
102 be eligible for examination for a second class engineer's license.
103 To be eligible for examination for a first class engineer's
104 license, a person must have been employed for not less than
105 five years as a second class engineer, except that any person
106 graduated as a mechanical engineer from a duly recognized school
107 of technology who has been employed for not less than one year
108 as a second class engineer or as an engineer in any other state
109 or country for not less than two years shall be eligible for
110 examination for a first class engineer's license.

111 6. Each application for a license as an engineer or fire-

112 man of a class specified herein shall be made upon a blank
113 furnished by the labor commissioner, signed and sworn to by
114 the applicant, and shall show the total experience of the
115 applicant. Each such application shall be accompanied by an
116 examination fee as follows: For a first class engineer's
117 license, five dollars; for a second class engineer's license,
118 three dollars; for a third class and a hoisting engineer's
119 license, two dollars; for a fireman's license, one dollar; and
120 for registering an apprentice, one dollar. Each such appli-
121 cation shall entitle the applicant to two examinations only,
122 and no person shall make application hereunder for a license
123 of any particular class more often than once in ninety days.
124 Each license shall be renewed on the first day of July of
125 each year upon payment of two dollars for engineers and one
126 dollar for firemen.

127 7. Any person shall be eligible for examination for a
128 fireman's license when he submits to the labor commissioner
129 satisfactory evidence that he is of good character and has
130 been employed as a fireman in other states or countries for
131 not less than two years. Any person shall be eligible for
132 examination for the different classes of engineer's licenses
133 when he submits to the labor commissioner satisfactory evi-
134 dence that he is of good character and has been employed as
135 a power engineer in other states or countries for the period
136 of time as follows: First class, ten years; second class, five
137 years; third class, three years; hoisting engineers, two years

138 and that he has had charge of or operated boilers or engines or
139 refrigeration plants or other motive power equipment for said
140 time which are of the type and horse power the license applied
141 for would permit him to have charge of or operate.

142 8. At any time within one year after this act becomes ef-
143 fective, upon due application therefor and upon payment of the
144 examination fee of the class of license applied for, the labor
145 commissioner shall issue the license applied for, without
146 written or oral examination, to any person who shall submit
147 evidence, under oath, to the labor commissioner that he is of
148 good character, has been a resident of the state of Iowa for
149 at least one year immediately preceding the date of his appli-
150 cation and that he has been employed as a power engineer for
151 the period of time as follows: First class, ten years; second
152 class, five years; third class, three years; hoisting engineers,
153 two years; fireman's license, two years as a fireman; and that
154 he has had charge of or operated boilers or engines, or refrig-
155 eration plants or other motive power equipment for said time
156 which are of the type and horse power the license applied for
157 would permit him to have charge of or operate.

158 9. The labor commissioner shall, from time to time, examine
159 the requirements for licensing of power engineers in other
160 states, and shall record those which, in the judgment of the com-
161 missioner, maintain standards not lower than those provided
162 by this chapter for the different classes of licenses covered
163 by this chapter. The commissioner, upon presentation to him of

164 satisfactory evidence, by any person, that he holds a license
165 issued to him by proper authority in any state so recorded
166 equivalent to the class of license applied for, and upon the
167 receipt of the required fee for said license, shall issue to
168 such person a license as provided by this chapter, signed by
169 such commissioner. The labor commissioner shall collect and
170 account for all fees provided for by this chapter and pay the
171 same to the state treasurer.

172 10. An engineer's or fireman's license shall be so placed
173 in the engine or boiler room of the plant operated by the licensee
174 as to be easily read, and if the licensee is operating or has
175 charge of a hoisting engine or portable engine or boiler, he
176 shall carry his license on his person.

177 11. A license as engineer or fireman shall be suspended
178 or revoked by the labor commissioner for incompetence or un-
179 trustworthiness of the holder thereof. A wilfully false state-
180 ment in the application shall be sufficient cause for revoca-
181 tion at any time. Such license shall not be revoked except
182 after the licensee has had notice of the intention to revoke
183 such license and an opportunity to be heard thereon. If any
184 person's license is revoked he cannot make application for a
185 new license under this chapter within six months from the time
186 his license was revoked. If a license is lost or destroyed, a
187 new certificate shall be issued without examination upon satis-
188 factory proof thereof and upon payment of a fee of one dollar.

189 12. No provisions of law in conflict with any provision

190 of this chapter shall have any effect thereon or upon the rights
191 of any person licensed hereunder.

192 13. Any violation of the provisions of this chapter shall
193 be punished by a fine not exceeding one hundred dollars or by
194 imprisonment in the county jail not exceeding thirty days.

