

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

Senate File 346

February 25, 1947.
Passed on File.

By CLEM and BEKMAN.

A BILL FOR

An Act to provide for the protection of life and property in schools, hospitals, apartment dwellings, office buildings, hotels, etc., from the danger of steam boilers and refrigeration plant explosions and from the dangers of other motive power, and to fix and determine the conditions and qualifications under which persons may be licensed to have charge of or operate a refrigeration plant, a steam boiler or engine or its equipment, and any other motive power equipment.

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

1 Section 1. There is hereby created under the Department
2 of Labor and by the Commissioner of Labor a state board of
3 power engineering examiners consisting of three members, one
4 from each section of the state, divided east, central and
5 west, who shall be appointed by the Commissioner of Labor
6 within sixty days after the passage of this Act. The board
7 members of the first board shall be appointed to serve for the
8 following terms: One member for one year, one member for two
9 years, and one member for three years, the said terms ending
10 on the first day of July of the succeeding years. On the
11 expiration of each of the said terms, the term of office of
12 each newly appointed or reappointed member of the board shall

13 be three years and shall terminate on the first day of July.
14 The executive Council may remove any member of the board for
15 misconduct, incompetency or neglect of duty. Vacancies in the
16 membership of the board, however created, shall be filled for
17 the unexpired term by appointment by the Commissioner of Labor.

1 Sec. 2. Each member of the board shall be a citizen of
2 the United States, not less than thirty-five years of age, and
3 a resident of the State of Iowa for at least five years
4 immediately preceding his appointment. Each member shall have
5 been engaged in the operating of steam boilers, engines,
6 refrigeration plants or any other motive power equipment for at
7 least ten years. Each member shall be a first class licensed
8 engineer, provided that each member of the board first appointed
9 shall receive a first class license from the Commissioner of
10 Labor.

1 Sec. 3. The board shall adopt and have an official seal
2 which shall be affixed to all licenses granted and may make all
3 by-laws and rules not inconsistent with law, necessary for the
4 proper performance of its duty.

1 Sec. 4. The board shall hold a meeting and organize within
2 thirty days after its members are first appointed, and thereafter
3 shall hold at least one regular meeting in each January, April,
4 July and October of each year and such extra meetings as the
5 board deems necessary and give written and oral examinations
6 for the licenses provided for in this chapter. The board shall
7 elect annually from its members a chairman and a vice-chairman.

8 The secretary of the executive council or one of his assistants,
9 to be designated by him, shall act as secretary of said board.
10 At any meeting of the board, two members shall constitute a
11 quorum. The board shall have power to employ such necessary
12 inspectors and clerical assistants and incur such office expense
13 as may be necessary to properly carry out and enforce the
14 provisions of this chapter.

1 Sec. 5. On or before the thirtieth day of May of each year
2 the board shall submit to the Commissioner of Labor a written
3 report of its transactions for the preceding year, and shall
4 file with the secretary of state a copy thereof, together with
5 a complete statement of the receipts and expenditures of the board,
6 attested by the affidavits of the chairman and the secretary, and
7 a complete list of the persons licensed under this chapter with
8 their addresses and license number and the date of issuance.
9 The secretary shall keep on file a record of all licenses
10 granted under this chapter and shall make annually such revisions
11 of said record as may be necessary.

1 Sec. 6. The secretary shall collect and account for all
2 fees provided for by this chapter and pay the same to the state
3 treasurer who shall place such monies in the general fund.

1 Sec. 7. Warrants for the payment of expenses and compen-
2 sations provided by this chapter shall be issued by the auditor
3 of state and paid by the state treasurer upon presentation of
4 vouchers regularly drawn by the chairman and secretary of the
5 board and passed by the state board of audit.

1 Sec. 8. Each member of the board shall receive as
2 compensation the sum of fifteen dollars per day for the time
3 actually spent in traveling to and from, and in attending
4 sessions of the board and its committees and shall receive all
5 necessary traveling, maintenance and incidental expenses
6 incurred in the discharge of his duties.

1 Sec. 9. No person shall operate a steam or power plant
2 within the terms of this Act unless there shall be in charge
3 of such plant a licensed engineer of the correct grade.

1 Sec. 10. There is exempt from the terms of this act, all
2 heating plants of less than fifteen pounds pressure per square
3 inch, in private residences of less than four families and
4 boilers, engines and equipment used in marine, or common carrier
5 locomotive service, or equipment under the jurisdiction of the
6 United States Government.

1 Sec. 11. The owner or user of a steam boiler or its
2 equipment, engine, refrigeration plant or any other motive
3 power equipment other than those above excepted, shall not
4 operate or cause to be operated a steam boiler or its equipment,
5 engine, refrigeration plant, or any other motive power equipment
6 unless the person in charge of and operating it is duly licensed.

1 Sec. 12. The horsepower of a boiler shall be ascertained
2 upon a basis of ten square feet of heating surface shall equal
3 one horsepower. The horsepower of a reciprocating steam engine
4 shall be ascertained upon the basis of a mean effective pressure
5 of forty pounds per square inch of piston for a simple engine,

6 fifty pounds for a condensing engine, and seventy pounds for a
7 compound engine, calculated upon the area of the high pressure
8 piston. A variable speed engine shall be rated at its designed
9 mean speed. A steam turbine engine shall be rated at less than
10 nine horsepower when the external diameter of the steam supply
11 pipe does not exceed one and three-fourths inches, at fifty
12 horsepower when it exceeds one and three-fourths inches and
13 does not exceed three and one-half inches, and at one hundred
14 fifty horsepower when it exceeds three and one-half inches and
15 does not exceed five inches. The horsepower of other engines
16 and all other motive power equipment shall be rated according
17 to their manufacturer's rating capacity.

1 Sec. 13. Licenses shall be granted according to the
2 competence of the applicant and shall be classified as follows:

3 (a) First Class: To have charge of and operate any power,
4 heating, or refrigeration plant, and any other motive power
5 plant or equipment.

6 (b) Second Class: To have charge of and operate any
7 boiler or boilers, and to have charge of and operate engines,
8 and any other motive power equipment, not exceeding in the
9 aggregate of one hundred fifty horsepower, and refrigeration
10 plants of not more than fifty tons or to operate a first class
11 plant under the engineer in direct charge thereof.

12 (c) Third Class: To have charge of and operate a boiler
13 or boilers not exceeding in the aggregate of one hundred horse-
14 power, and engines and any other motive power equipment not

15 exceeding fifty horsepower each, and refrigeration plants of
16 not more than twenty-five tons or to operate a second class
17 plant under the engineer in direct charge thereof.

18 (d) Hoisting Engineers: To have charge of and operate
19 hoisting and portable boilers and engines irrespective of kind
20 of power.

21 (e) Firemen's Licenses: Firemen to have charge of and
22 operate any boiler or boilers used for heating purposes
23 exclusively where the safety valve or valves are set to blow at
24 a pressure not exceeding fifteen pounds to the square inch and
25 not more than fifty horsepower, and to operate any boiler or
26 boilers under the engineer in direct charge thereof.

1 Sec. 14. To be eligible for examination for a fireman's
2 license a person must have been employed as an apprentice for
3 not less than one year. To be eligible for a hoisting engineer's
4 license, a person must have been employed as a licensed fireman
5 for not less than one year or as an oiler or engineer's apprentice
6 for not less than one year. To be eligible for a third class
7 engineer's license, a person must have been employed as a licensed
8 fireman for not less than one year. To be eligible for a second
9 class engineer's license, a person must have been employed as
10 a third class engineer for not less than two years, except that
11 any person graduated as a mechanical engineer from a duly
12 recognized school of technology who has been employed for not
13 less than one year as an apprentice or as a fireman or engineer
14 in any other state or county shall be eligible for examination

15 for a second class engineer's license. To be eligible for
16 examination for a first class engineer's license, a person must
17 have been employed for not less than five years as a second class
18 engineer, except that any person graduated as a mechanical
19 engineer from a duly recognized school of technology who has
20 been employed for not less than one year as a second class
21 engineer or as an engineer in any other state or county for not
22 less than two years shall be eligible for examination for a
23 first class engineer's license.

1 Sec. 15. Each application for a license as an engineer
2 or fireman of a class specified herein shall be made upon a
3 blank furnished by the board signed and sworn to by the
4 applicant, and shall show the total experience of the applicant.
5 Each such application shall be accompanied by an examination
6 fee as follows: For a first class engineer's license five
7 dollars; for a second or third class engineer's license two
8 dollars; for a fireman's license one dollar. Each such appli-
9 cation shall entitle the applicant to one examination only, and
10 no person shall make application hereunder for a license of any
11 particular class oftener than once in ninety days. Every
12 license shall be renewed on the first day of July of each
13 year upon payment of two dollars for engineers and one dollar
14 for fireman.

1 Sec. 16. Any person shall be eligible for examination
2 for a fireman's license when he submits to the board satis-
3 factory evidence that he is of good character and has been

4 employed as such in other states or countries for not less
5 than two years. Any person shall be eligible for examination
6 for the different classes of engineer's license when he submits
7 to the board satisfactory evidence that he is of good character
8 and has been employed as a power engineer in other states or
9 countries for the period of time as follows:

10 (a) First Class: Ten years

11 (b) Second Class: Five years

12 (c) Third Class: Three years

13 (d) Hoisting Engineers: Two years, and that he has had
14 charge of or operated boilers or engines or refrigeration
15 plants or other motive power equipment for said time which are
16 of the type and horsepower the license applied for would permit
17 him to have charge of or operate.

1 Sec. 17. At any time within one year after this act becomes
2 effective upon due application therefor and upon payment of the
3 renewal fee of the class of license applied for, the board shall
4 issue the license applied for, without written or oral examin-
5 ation to any person who shall submit evidence under oath to the
6 board that he now holds an Iowa Municipal license of like grade.

1 Sec. 16. At any time within one year after this Act
2 becomes effective upon due application therefor and upon payment
3 of the renewal fee of the class of license applied for, the board
4 shall issue the license applied for, without written or oral
5 examination to any person who shall submit evidence, under
6 oath, to the board that he now is operating equipment of the

7 class for which license he applies provided he has operated
8 said class of equipment for the periods of time as follows :

9 (a) Fireman: Not less than one year

10 (b) Hoisting and portable engineer: Not less than two
11 years

12 (c) Third Class: Not less than two years

13 (d) Second Class: Not less than three years

14 (e) First Class: Not less than five years

1 Sec. 19. Each licensed engineer shall exhibit his license
2 under glass in a conspicuous place in the plant in which he is
3 employed. If the licensee is operating or has charge of a
4 hoisting engine, or portable engine or boiler, he shall carry
5 his license on his person.

1 Sec. 20. A license as engineer or fireman shall be suspended
2 or revoked by the board for incompetence or untrustworthiness of
3 the holder thereof. A wilfully false statement in the application
4 shall be sufficient cause for revocation at any time. If any
5 person's license is revoked he cannot make application for a
6 new license under this Act within six months from the time his
7 license was revoked. If a license is lost or destroyed a new
8 certificate shall be issued without examination upon satisfactory
9 proof thereof and upon payment of a fee of one dollar.

1 Sec. 21. The compliance of the provisions of this Act shall
2 rest mutually with the employer and the employee. Any violation
3 of the provisions of this Act shall be punishable by a fine not
4 exceeding three hundred dollars or by imprisonment not exceeding
5 ninety days.