

2018 -- H 7939

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STATE OF RHODE ISLAND

IN GENERAL ASSEMBLY

JANUARY SESSION, A.D. 2018

A N A C T

RELATING TO BUSINESSES AND PROFESSIONS -- LAND SURVEYORS

Introduced By: Representatives Craven, Nunes, McEntee, and Knight

Date Introduced: March 09, 2018

Referred To: House Corporations

It is enacted by the General Assembly as follows:

1 SECTION 1. Section 5-8.1-9 of the General Laws in Chapter 5-8.1 entitled "Land
2 Surveyors" is hereby amended to read as follows:

3 **5-8.1-9. Board of registration for professional land surveyors -- Application and**
4 **qualification for registration.**

5 (a) (1) Application for registration as a professional land surveyor or certification as a
6 surveyor-in-training shall be made, in writing, on a form prescribed and furnished by the board of
7 land surveyors. The application shall:

8 (i) Contain statements made under oath;

9 (ii) Show the applicant's education;

10 (iii) Contain a detailed summary of the applicant's technical and professional experience;

11 and

12 (iv) Designate references as described in this section.

13 (b) The fee established in § 5-8.1-11 must accompany each application. Failure to include
14 this fee will result in the application being returned to the applicant without consideration by the
15 board.

16 (c) To be eligible for registration as a professional land surveyor, an applicant must be of
17 good character and reputation. Additionally, the applicant must submit five (5) references with
18 his or her application, three (3) of which are from registered professional land surveyors having
19 personal knowledge of his or her land surveying experience. No person seeking his or her initial

1 registration as a professional land surveyor shall be granted the certificate without first
2 completing a surveyor-in-training program as prescribed and approved by the board and pass an
3 examination in the fundamentals of land surveying. Upon passing that examination the applicant
4 is granted a surveyor-in-training certificate in this state.

5 (d) To be eligible for certification as a surveyor-in-training, an applicant must be of good
6 character and reputation substantiated by an interview with a quorum of the board of registration
7 and additionally must submit three (3) character references one of which must be from a
8 professional land surveyor.

9 (e) One of the following shall be considered as minimum evidence to the board that the
10 applicant is qualified for registration as a professional land surveyor or for certification as a land-
11 surveyor-in training, respectively:

12 (i) Graduation from a four (4) year survey degree program, experience and examination.

13 A graduate of a four (4) year survey degree program ~~may be admitted to an examination in the~~
14 ~~fundamentals of land surveying. Upon passing that examination the applicant is granted a~~
15 ~~surveyor in training certificate in this state. After receiving the surveyor in training certificate the~~
16 applicant will need a specific record of a minimum four (4) years of experience in land surveying.
17 This verified experience shall be under the direct supervision of a registered professional land
18 surveyor, satisfactory to the board and shall be broken down as follows. At a minimum twenty
19 percent (20%) shall be field experience, twenty percent (20%) shall be research, deed evidence,
20 reconciliation, etc. and twenty percent (20%) shall be property line calculations and
21 determination. Once the experience has been deemed satisfactory to the board, the applicant may
22 be admitted to an examination in the principles and practice of land surveying plus an additional
23 Rhode Island legal portion. Upon passing that examination, the applicant is granted a certificate
24 of registration to practice land surveying in this state, provided the applicant is qualified.

25 (ii) Graduation from a four (4) year degree program, experience and examination. A
26 graduate of a four (4) year degree program applicant who has also fulfilled the ~~four (4) year~~ core
27 curriculum (see ~~paragraph (iii) below~~ subsection (h) of this section) ~~may be admitted to an~~
28 ~~examination in the fundamentals of land surveying. Upon passing that examination the applicant~~
29 ~~is granted a surveyor in training certificate in this state. After receiving the surveyor in training~~
30 ~~certificate the applicant~~ will need a specific record of a minimum five (5) years of experience in
31 land surveying. This verified experience shall be under the direct supervision of a registered
32 professional land surveyor, satisfactory to the board and shall be broken down as follows: At a
33 minimum twenty percent (20%) shall be field experience; twenty percent (20%) shall be research,
34 deed evidence, reconciliation, etc. and twenty percent (20%) shall be property line calculations

1 and determination. Once the experience has been deemed satisfactory to the board, the applicant
2 may be admitted to an examination in the principles and practice of land surveying plus an
3 additional Rhode Island legal portion. Upon passing that examination, the applicant is granted a
4 certificate of registration to practice land surveying in this state, provided the applicant is
5 qualified.

6 ~~(iii) Four (4) year core curriculum. An applicant with a four (4) year degree as described
7 in paragraph (ii) above may need to take additional courses to fulfill, at a minimum, the following
8 core curriculum. For the following list of classes any equivalent class may be taken and any
9 survey related course may be substituted upon approval of the board:~~

10 ~~(A) Surveying I (3 credit hours), Surveying II (3 credit hours).~~

11 ~~(B) GPS & Geodetic control (3 credit hours).~~

12 ~~(C) Photogrammetry and remote sensing (3 credit hours).~~

13 ~~(D) Boundary adjustment computations (3 credit hours).~~

14 ~~(E) Land development/planning (3 credit hours).~~

15 ~~(F) Geographic/land information systems (3 credit hours).~~

16 ~~(G) Physics I with lab (4 credit hours).~~

17 ~~(H) Calculus I (4 credit hours), Calculus II (4 credit hours).~~

18 ~~(I) Statistical analysis (3 credit hours).~~

19 ~~(J) Law (12 credit hours): boundary law, law of contracts, law of property, estates &
20 trusts, professional ethics.~~

21 ~~(K) Business (9 credit hours): Quantitative business analysis I, business administration,
22 small business management, micro-economics.~~

23 ~~(L) Science (9 credit hours): geology, astronomy, soils, dendrology, chemistry, biology,
24 eeology.~~

25 ~~(M) Computer usage (12 credit hours): introduction to computers, computer science,
26 computer programming, AutoCAD basics, AutoCAD advanced.~~

27 ~~(N) English composition (3 credit hours).~~

28 ~~(O) Advanced communication (6 credit hours): technical writing, creative writing or
29 speech.~~

30 ~~(iv)~~(iii) Graduation from a two (2) year survey degree program, experience, and
31 examination. A graduate of a two (2) year survey degree program ~~may be admitted to an
32 examination in the fundamentals of land surveying. Upon passing that examination the applicant
33 is granted a surveyor in training certificate in this state. After receiving the surveyor in training
34 certificate~~ the applicant will need a specific record of a minimum ~~six (6)~~ five (5) years of verified

1 experience in land surveying. ~~(Four (4) of the years of experience shall be after receiving a~~
2 ~~surveyor in training certificate).~~ All ~~six (6)~~ five (5) years of experience shall be under the direct
3 supervision of a registered professional land surveyor, satisfactory to the board and shall be
4 broken down as follows: At a minimum twenty percent (20%) shall be field experience, twenty
5 percent (20%) shall be research, deed evidence, reconciliation, etc. and twenty percent (20%)
6 shall be property line calculations and determination. Once the experience has been deemed
7 satisfactory to the board, the applicant may be admitted to an examination in the principles and
8 practice of land surveying plus an additional Rhode Island legal portion. Upon passing that
9 examination, the applicant is granted a certificate of registration to practice land surveying in this
10 state, provided the applicant is qualified.

11 ~~(v)~~(iv) Graduation from a two (2) year degree program, experience, and examination. A
12 graduate of a two (2) year degree program applicant who has also fulfilled the ~~two (2) year~~ core
13 curriculum (see ~~paragraph (vi) below subsection (h) of this section~~) ~~may be admitted to an~~
14 ~~examination in the fundamentals of land surveying. Upon passing that examination the applicant~~
15 ~~is granted a surveyor in training certificate in this state. After receiving the surveyor in training~~
16 ~~certificate the applicant~~ will need a specific record of a minimum ~~seven (7)~~ five (5) years of
17 verified experience in land surveying. ~~(Four (4) of the years of experience shall be after receiving~~
18 ~~a surveyor in training certificate).~~ All ~~seven (7)~~ five (5) years of experience shall be under the
19 direct supervision of a registered professional land surveyor, satisfactory to the board and shall be
20 broken down as follows: At a minimum twenty percent (20%) shall be field experience; twenty
21 percent (20%) shall be research, deed evidence, reconciliation, etc. and twenty percent (20%)
22 shall be property line calculations and determination. Once the experience has been deemed
23 satisfactory to the board, the applicant may be admitted to an examination in the principles and
24 practice of land surveying plus an additional Rhode Island legal portion. Upon passing that
25 examination, the applicant is granted a certificate of registration to practice land surveying in this
26 state, provided the applicant is qualified.

27 ~~(vi) Two (2) year core curriculum. An applicant with a two (2) year degree as described~~
28 ~~in paragraph (v) above may need to take additional courses to fulfill, at a minimum, the following~~
29 ~~core curriculum. For the following list of classes any equivalent class may be taken and any~~
30 ~~survey related course may be substituted upon approval of the board:~~

31 ~~(A) Surveying I (3 credit hours), Surveying II (3 credit hours).~~

32 ~~(B) Mathematics (12 credit hours): advanced algebra, analytical trigonometry, analytical~~
33 ~~geometry, spherical trigonometry, statistical analysis or quantitative business analysis I,~~
34 ~~Analytical trigonometry and analytical geometry are mandatory classes to fulfill the (12 credit~~

1 ~~hours).~~

2 ~~(C) Business and law (6 credit hours): legal principles, business administration, law of~~

3 ~~contracts, law of property, estates & trusts, professional ethics.~~

4 ~~(D) Science (6 credit hours): physics, geology, astronomy, soils, dendrology, chemistry,~~

5 ~~biology, ecology.~~

6 ~~(E) Computer usage (6 credit hours): introduction to computers, computer science,~~

7 ~~computer programming, AutoCAD basics, AutoCAD advanced.~~

8 ~~(F) English composition (3 credit hours).~~

9 ~~(G) Advanced communication (6 credit hours): technical writing, creative writing or~~

10 ~~speech.~~

11 ~~(vii) Graduation from a two (2) year program, experience and examination. Any person~~

12 ~~obtaining a minimum of five (5) years experience under the supervision of a registered~~

13 ~~professional land surveyor, and is satisfactory to the board, may be admitted to an examination in~~

14 ~~the fundamentals of land surveying. Upon passing that examination the applicant is granted a~~

15 ~~surveyor in training certificate (LSIT), in this state provided the applicant is qualified. Upon~~

16 ~~obtaining a specific record of a minimum of an additional five (5) years of experience of~~

17 ~~combined office and field experience satisfactory to the board in land surveying, which~~

18 ~~experience was under the direct supervision of a registered professional land surveyor, and which~~

19 ~~experience indicates to the board that the applicant may be competent to practice land surveying,~~

20 ~~and the person is a graduate of a land surveying or related curriculum of satisfactory standing, of~~

21 ~~two (2) years or more approved by the board, who has obtained an associates degree in land~~

22 ~~surveying or related curriculum, the applicant may be submitted to an examination in the~~

23 ~~principles and practice of land surveying plus an additional Rhode Island legal portion. Upon~~

24 ~~passing that examination, the applicant is granted a certificate of registration to practice land~~

25 ~~surveying in this state, provided the applicant is qualified. This subsection expires at midnight,~~

26 ~~December 31, 2009.~~

27 ~~(viii) In certain instances in which an applicant presents an experience of unusually high~~

28 ~~quality, the board, at its complete discretion, may allow an applicant, having acquired six (6)~~

29 ~~verified years of active office and field experience in land surveying, which experience has been~~

30 ~~under the direct supervision of a professional land surveyor, to be admitted to an examination in~~

31 ~~the fundamentals of land surveying. Upon passing those examinations, the applicant is granted a~~

32 ~~surveyor in training certificate in the state. This subsection does not exempt the applicant from~~

33 ~~the required degree or the experience after obtaining the surveyor in training certificate (LSIT).~~

34 (v) Experience, and examination. An applicant that has recorded a minimum of seven (7)

1 years verified experience and who has also fulfilled the core curriculum (see subsection (h) of this
2 section) will need a specific record of a minimum of seven (7) years of verified experience in
3 land surveying. All seven (7) years of experience shall be under the direct supervision of a
4 registered professional land surveyor, satisfactory to the board and shall be broken down as
5 follows: At a minimum twenty percent (20%) shall be field experience; twenty percent (20%)
6 shall be research, deed evidence, reconciliation, etc. and twenty percent (20%) shall be property
7 line calculations and determination. Once the experience has been deemed satisfactory to the
8 board, the applicant may be admitted to an examination in the principles and practice of land
9 surveying plus an additional Rhode Island legal portion. Upon passing that examination, the
10 applicant is granted a certificate of registration to practice land surveying in this state, provided
11 the applicant is qualified .

12 ~~(ix)~~(vi) Surveying teaching. Teaching of advanced land surveying subjects in a college or
13 university offering an approved land surveying curriculum may be considered as land surveying
14 experience satisfactory to the board.

15 ~~(ix)~~(vii) Registration by comity or endorsement. A person holding a current certificate of
16 registration to engage in the practice of land surveying issued to him or her by a proper authority
17 of a state, territory, or possession of the United States, or the District of Columbia must have, at
18 the time they were licensed, met the existing Rhode Island requirements for licensure. All
19 applicants applying under this section must have passed the written examinations in the
20 fundamentals of land surveying and the principles and practice of land surveying. If, based upon
21 verified evidence and the opinion of the board, the applicant meets all appropriate requirements
22 of this section, the applicant will be allowed to take the Rhode Island legal portion. Upon passing
23 this examination the applicant shall be granted a certificate of registration to practice land
24 surveying in this state, provided the applicant is qualified.

25 (f) The passing grade on all examinations offered by the land surveyors is not less than
26 seventy percent (70%). An applicant failing any examination may apply for re-examination upon
27 payment of the appropriate fees. An applicant who scores less than fifty percent (50%) on any
28 examination may not apply for re-examination for at least one year.

29 (g) An applicant who fails any of the exams three (3) times shall be interviewed by the
30 board, before any further application can be acted upon. It is the applicant's responsibility to show
31 the board that he or she will be successful if allowed to take the exam again. If in the board's
32 opinion the applicant can not satisfactorily demonstrate that he or she is qualified to re-take the
33 exam, the board may require that the applicant acquire additional knowledge, education, and or
34 experience, satisfactory to the board before the applicant may sit for another exam.

1 (h) Core curriculum. An applicant with a four (4) year degree as described in subsection
2 (e)(ii) of this section, a two (2) year degree as described in subsection (e)(iv) of this section, or
3 experience as described in subsection (e)(v) of this section may need to take additional courses to
4 fulfill at a minimum, the following core curriculum. For the following list of classes any
5 equivalent class may be taken and any survey related course may be substituted upon approval of
6 the board:

7 (1) Surveying (six (6) credit hours). Surveying I or equivalent, Surveying II or equivalent.
8 Courses must cover topics of GPS & Geodetic control and boundary adjustment computations.

9 (2) Mathematics (nine (9) credit hours). Qualifying courses: Algebra, Trigonometry, Pre-
10 Calculus, or higher.

11 (3) Business and law (six (6) credit hours). Qualifying courses: boundary law, contract
12 law, property law, trusts and estates, professional ethics, quantitative business analysis I, business
13 administration, small business management, micro economics, accounting principles or related
14 courses.

15 (4) Science (nine (9) credit hours). Qualifying courses: physics, geology, astronomy,
16 soils, dendrology, chemistry, biology or ecology.

17 (5) Computer Usage (three (3) credit hours). Qualifying courses: introduction to
18 computer, computer science, computer programing, AutoCad basics, AutoCAD advantage,
19 geographic/land information systems, introduction to spreadsheets, or word processing.

20 (6) English composition, English composition II, technical writing, creative writing, or
21 speech (six (6) credit hours).

22 SECTION 2. This act shall take effect upon passage.

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LC005165
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EXPLANATION
BY THE LEGISLATIVE COUNCIL
OF

A N A C T
RELATING TO BUSINESSES AND PROFESSIONS -- LAND SURVEYORS

1 This act would streamline the application and examination process as well as the
2 educational and experience standards for applicants seeking registration as professional land
3 surveyors.

4 This act would take effect upon passage.

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