

1 21 NCAC 56 .0601 is proposed for amendment under temporary procedures **with changes** as follows:
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3 **SECTION .0600 - PROFESSIONAL LAND SURVEYOR**
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5 **21 NCAC 56 .0601 REQUIREMENTS FOR LICENSING**

6 (a) Education. The terms used by the Board for the specific education requirements to be eligible to be licensed as a
7 Professional Land Surveyor are defined as follows:

8 (1) "B.S. in surveying or other equivalent curriculum." These degrees shall contain a minimum of 45
9 semester hours, or their quarter-hour equivalents. Of the 45 semester hours, a minimum of 12
10 semester hours of surveying fundamentals, 12 semester hours of applied surveying practice, and 12
11 semester hours of advanced or theoretical surveying courses are required. The remainder of the
12 required surveying courses may be elective-type courses in any of the categories; and

13 (2) "Associate degree in surveying technology." This degree shall contain a minimum of 20 semester
14 hours, or quarter-hour equivalents. Courses shall be in surveying fundamentals, applied surveying
15 practice and advanced or theoretical surveying courses, including courses in surveying practices,
16 subdivision design and planning, surface drainage, and photogrammetry which must be completed
17 with a passing grade.

18 (3) "Land Surveyor Apprenticeship." The applicant shall have completed one of the following
19 programs:

20 (A) Certified Survey Technician Program (CST) of the National Society of Surveyors (NSPS)
21 levels I through IV.

22 (B) "Technologist" Certification Program of the American Society for Photogrammetry and
23 Remote Sensing (ASPRS)

24 (C) Based upon the Surveying Education Standard of the National Council of Examiners for
25 Engineering and Surveying (NCEES) by obtaining college semester credit hours, as modified to
26 require the following 39 college semester hours:

27 (i) 12 college semester hours in mathematics beyond basic mathematics, but the credits
28 include college algebra or higher mathematics. These courses must emphasize mathematical
29 concepts and principles rather than computation. Mathematics courses may include college algebra,
30 trigonometry, analytic geometry, differential and integral calculus, linear algebra, numerical
31 analysis, probability and statistics, and advanced calculus.

32 (ii) 27 college semester credit hours of surveying science and surveying practice. Courses shall
33 be taught by qualified surveying faculty. Examples of surveying courses are basic surveying, route
34 surveying, geodesy, geographic information systems, land development design and planning, global
35 positioning systems, photogrammetry, mapping, legal principles of land surveying, boundary law,
36 professional surveying and mapping, and remote sensing. Graduate-level surveying courses can be
37 included to fulfill curricular requirements in this area.

1 (b) Experience:

2 (1) Definition. As used in the North Carolina Engineering and Land Surveying Act, the term
3 "progressive practical experience" means that during the period of time in which an applicant made
4 a practical utilization of the knowledge of the principles of geometry and trigonometry in
5 determining the shape, boundaries, position, and extent of the earth's surface, such that continuous
6 improvement, growth, and development in the utilization of that knowledge have been shown. In
7 addition, the applicant shall show the continuous assumption of greater individual responsibility for
8 the work product over that period of time.

9 (2) Required Experience. In evaluating the work experience required, the Board shall consider the total
10 experience record and the progressive nature of the record. Not less than half of the required land
11 surveying experience shall be of a professional grade and character, and shall be performed under
12 the responsible charge of a Professional Land Surveyor. If the work was not under the responsible
13 charge of a Professional Land Surveyor, the applicant shall submit a written explanation to the Board
14 explaining why the experience should be considered. The Board shall approve the experience on a
15 case-by-case basis if it is satisfied of the grade and character of the progressive experience.
16 Experience gained under the technical supervision of an unlicensed individual shall be considered
17 based upon the engineering education and experience credential of the unlicensed supervisor.
18 Experience gained in the armed services, typically while serving in an engineering or surveying
19 related group, shall be accepted only if substantially equivalent to that which would have been
20 gained in civilian work.

21 (3) Other Experience. The applicant shall document the nature and details of the work done in the
22 following areas to evidence to the Board its equivalency to land surveying:

- 23 (A) construction layout;
- 24 (B) engineering surveying; or
- 25 (C) part-time surveying work.

26 (c) Exhibits, Drawings, Maps:

27 (1) Required Exhibit Before Principles and Practice of Surveying Examination:

28 (A) General. The applicant shall submit, along with the application, an actual map of a
29 boundary survey of an actual project prepared under the direct supervision and responsible
30 charge of a Professional Land Surveyor who states that the applicant did the preparatory
31 work of the survey; that shows, by its conformance, that the applicant is knowledgeable of
32 the contents of the Standards of Practice for Land Surveying in North Carolina as set forth
33 in Section .1600 of this Chapter; and that shows that the applicant is able to apply this
34 knowledge by preparing a map in accordance with the various legal and professional
35 requirements of land surveying.

36 (B) Physical Requirement. The map submitted shall be a clean, clear, legible print of an original
37 map in the file of a Professional Land Surveyor.

1 (2) Specific Requirements. The details that shall be evaluated are those applicable to the particular
2 project as described in the Standards of Practice for Land Surveying in North Carolina as set forth
3 in Section .1600 of this Chapter, and as described in G.S. 47-30. In addition, the exhibit shall contain
4 a statement that the field work, calculation, and mapping were performed by the applicant under the
5 supervision of a Professional Land Surveyor, attested to by that Professional Land Surveyor.

6 (3) Requirements for Comity Applicant. The map submitted by an applicant under comity may be a
7 representative map of an actual survey of a project or work performed in the state of licensure that
8 is modified to meet the requirements in Subparagraph (c)(2) of this Rule and shall be evaluated in
9 accordance with the requirements applicable to the particular project as described in the Standards
10 of Practice for Land Surveying in North Carolina as set forth in Section .1600 of this Chapter, and
11 as described in G.S. 47-30.

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13 *History Note: Authority G.S. 47-30; 89C-10; 89C-13;*
14 *Eff. February 1, 1976;*
15 *Readopted Eff. September 29, 1977;*
16 *Amended Eff. August 1, 2014; July 1, 2009; August 1, 2000; August 1, 1998; November 2, 1992;*
17 *April 1, 1989; December 1, 1984; January 1, 1982;*
18 *Pursuant to G.S. 150B-21.3A, rule is necessary without substantive public interest Eff. April 27,*
19 *2019; Amended Eff. July 1, 2020*
20 *Temporary Amended Amend. Eff. July 1, 2022.*

1 21 NCAC 56 .0608 is proposed for adoption under temporary procedures with changes as follows:

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3 **21 NCAC 56 .0608 SURVEYOR INTERN**

4 (a) General. To obtain the optional certification as a Surveyor Intern, an applicant shall:

- 5 (1) pass the fundamentals of land surveying examination and make application to the Board on a form
6 prescribed and furnished by the Board,
- 7 (2) be of good character and reputation,
- 8 (3) submit three character references to the Board, one of whom is a professional land surveyor,
- 9 (4) comply with the requirements of this rule, and
- 10 (5) satisfy one of the following requirements related to education and experience:
 - 11 (A) Have a bachelor of sScience degree in surveying or other equivalent curricula,
12 approved by the Board and a record satisfactory to the Board of one year of progressive
13 practical experience under a practicing professional land surveyor.
 - 14 (B) Have an associate degree in surveying technology approved by the Board and a record
15 satisfactory to the Board of two years of progressive practical experience under a practicing
16 professional land surveyor.
 - 17 (C) Have graduated from high school or completed a high school equivalency certificate and a
18 record satisfactory to the Board of five years of progressive practical experience, under a
19 practicing professional land surveyor.
 - 20 (D) Graduation from a high school or the completion of a high school equivalency certificate,
21 completion of a Land Surveyor Apprenticeship, and a record satisfactory to the Board of
22 three years of progressive practical experience under a practicing professional land
23 surveyor.

24 (b) Request. The application form may be requested from the Board office or obtained from the website.

25 (c) Application Form. Surveyor Intern Certification Certificate Application Form-form. After passing the
26 fundamentals of surveying examination an applicant may make application to the Board
27 to become certified as a "Surveyor Intern." This form requires the applicant to set forth personal history, educational
28 background, surveying experience, character references and exhibit. A passport-type photographic quality portrait that
29 is adequate for current identification purposes is ~~also~~ required.

30 (d) Reference Forms:

- 31 (1) Persons applying to be certified as a Surveyor Intern shall submit to the Board names of individuals
32 who are familiar with the applicant's work, character and reputation. The names shall be submitted
33 by the applicant on the application form.
- 34 (2) Persons applying for certification as a Surveyor Intern must submit three references, one of whom
35 shall be a Professional Land Surveyor.

1 (3) In addition to the applicant submitting names to the Board of such individuals, those individuals
2 shall submit to the Board their evaluations of the applicant on reference forms supplied them by the
3 applicant.

4 (4) The reference form requires the individual evaluating the applicant to state the evaluating
5 individual's profession, knowledge of the ~~applicant~~applicant, and information concerning the
6 applicant's land surveying experience, ~~character~~character, and reputation.

7 (5) The Board shall provide the reference forms to the applicant along with the application for licensure.
8 The reference forms shall then be distributed by the applicant to the persons listed on the application
9 as references. The applicant shall ensure that the individuals listed as references return the forms to
10 the Board prior to the filing deadline for the examination applied for by the applicant.

11 (e) ~~Fees. Surveyor Intern Certification Form. Once the applicant passes the examination on the fundamentals of~~
12 ~~surveying and makes application to the Board to become certified as a "Surveyor Intern" the application fee of one~~
13 ~~hundred dollars (\$100.00) is payable.~~

14 (f) ~~Personal Interview.~~ During the application process, the applicant may be interviewed by Board members if the
15 members have questions regarding the applicant's education, experience or character, based upon the information
16 submitted in the application.

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18 *Authority G.S. 89C-10; 89C-13; 89C-14; 89C-15; Temporary Adoption Eff. July 1, 2022.*