

## Chapter A-E 6

### PROFESSIONAL LAND SURVEYOR LICENSURE

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**A-E 6.01 Authority and purpose.** The rules in this chapter are adopted under authority in ss. 15.08 (5) (b), 227.11, 443.01 (6s), and 443.06, Stats. The purpose of rules in this chapter is to interpret basic education, experience and examination requirements for licensure as a professional land surveyor as specified in s. 443.06, Stats.

**History:** Cr. Register, February, 1987, No. 374, eff. 3-1-87; correction in (intro.) made under s. 13.92 (4) (b) 7., Stats., Register May 2015 No. 713; CR 15-036: am. Register January 2016 No. 721, eff. 2-1-16.

**A-E 6.02 Licensure requirements for professional land surveyors. (1)** An applicant for a professional land surveyor licensure, in accordance with s. 443.06 (2), Stats., shall complete all of the following:

(a) Shall submit one of the following:

1. Documentary evidence of completion of a bachelor's degree of not less than 4 years duration in a course in the practice of professional land surveying or a related field that is approved by the professional land surveying section and the completion of at least 2 years of approved practice in professional land surveying.

2. Documentary evidence of completion of an associate degree in not less than 2 years duration in a course in the practice of professional land surveying or a related field of study that is approved by the professional land surveying section and the completion of at least 4 years of approved practice in professional land surveying.

3. Documentary evidence that the applicant has engaged in the practice of professional land surveying for at least 10 years prior to the application and has demonstrated that the applicant is competent to engage in the practice of professional land surveying as determined by the professional land surveying section. This subdivision applies to applicants who are applying after June 30, 2000 and before July 1, 2019.

(b) Fundamentals of land surveying examination.

(c) Principles and practice of land surveying examination after completing all but one year of the required experience.

**(2)** An applicant who files an application but who does not comply with a request for information related to the application within one year from the date of the request shall file a new application and fee.

**Note:** Applications are available upon request to the board office located at 1400 East Washington Avenue, P.O. Box 8935, Madison, Wisconsin 53708.

**History:** Cr. Register, February, 1987, No. 374, eff. 3-1-87; am. Register, January, 1999, No. 517, eff. 2-1-99; CR 15-036: am. (title) Register January 2016 No. 721, eff. 2-1-16; CR 15-040: r. and recr. Register May 2016 No. 725, eff. 6-1-16.

**A-E 6.03 Land surveying experience. (1)** To qualify as "practice in professional land surveying work of a satisfactory character which indicates that the applicant is competent to be placed in responsible charge of such work" under s. 443.06, Stats., the experience of an applicant shall be in areas of professional land surveying practice designated under pars. (a) and (b), or other areas which, in the opinion of the board, provide the applicant with knowledge of practice of land surveying at least equivalent to that which is generally acquired by experience in the areas listed. An applicant need not have experience in all areas listed below. However, all applicants shall have experience in the areas

listed in par. (a) 1. and 2. Academic coursework which provides the applicant with knowledge and skills in some areas of practice listed in pars. (a) and (b) may be claimed as equivalent to experience.

(a) At least two-thirds of an applicant's experience shall be acquired in all of the following:

1. Locating land boundaries and land boundary corners including all of the following services:

a. Researching public and private records and interpreting legal descriptions, deeds, and survey maps.

b. Locating lost and obliterated corners and United States public land survey system corners and reestablishing or perpetuating monuments of the corners.

c. Establishing, reestablishing and perpetuating survey monuments.

d. Subdividing sections.

e. Establishing or retracing property lines to determine length and bearing.

f. Reestablishing obliterated property lines.

g. Preparing descriptions of real property from data acquired by field measurements and other evidence of property location.

h. Conducting resurveys.

2. Preparing maps including all of the following:

a. Maps of sections or portions of sections or townships as established by the original public land survey and subdivisions of those sections in accordance with the statutes of the United States and the rules and regulations made by the secretary of the interior in conformity thereto.

b. Subdivision plats prepared in accordance with the Wisconsin statutes or local ordinances.

c. Certified survey maps prepared in accordance with the Wisconsin statutes or local ordinances.

e. Official plats or maps of land in this state in accordance with ch. A-E 7.

(b) Not more than one-third of an applicant's experience may be acquired in:

1. Preparing highway and railroad rights-of-way maps.

2. Construction staking for highways, roads, streets or similar projects within the boundaries of established rights-of-way.

3. Performing topographic surveys.

4. Developing control networks for aerial photography unless property lines are used for control.

5. Performing new building layout or construction surveys.

6. Transportation project plats in accordance with s. 84.095, Stats., and ss. Trans 233.03 and 233.04.

7. Condominium plats prepared in accordance with s. 703.11, Stats.

**(2)** Not more than one year of satisfactory experience credit may be granted for any calendar year.

**History:** Cr. Register, February, 1987, No. 374, eff. 3-1-87; am. (1) (a) (intro.) to 1. h., 2. (intro.) to c. and (b) 1. to 4., Register, January, 1999, No. 517, eff. 2-1-99; CR 06-057: am. (1) (a) 1. a., b., c., and g., and 2. e., r. (1) (a) 1. i. and 2. d., cr. (1) (b) 6. and 7., Register May 2007 No. 617, eff. 6-1-07; CR 09-030: am. (1) (a) 2. e. and (b) 7. Register December 2009 No. 648, eff. 1-1-10; CR 15-036: am. (1) (intro.) Register January 2016 No. 721, eff. 2-1-16.

**A-E 6.04 Educational requirements for professional land surveyors.**

(1) To meet the educational requirements of s. 443.06 (2) (bm), Stats., an applicant for licensure as a land surveyor shall have satisfactorily completed at least 60 semester credits in land surveying curriculum or in a related field as approved by the professional land surveyor section including no less than 12 semester credits in land surveying which shall be in the following categories of study:

(a) No less than 8 of the 12 credits may be in courses concentrating on the legal principles of professional land surveying and the technical aspects of professional land surveying. These courses shall include areas of study such as research of public and private records, principles of evidence and the interpretation of written documents used in boundary determination, the study of the legal elements of professional land surveying including those involving resurveys, boundary disputes, defective descriptions, riparian rights and adverse possession, the study of the professional and judicial functions of a professional land surveyor, the study of surveying methods for measuring distance and angular values, note keeping, computation and writing descriptions and the study of the Wisconsin Statutes and local ordinances relating to the preparation of subdivision maps and plats.

(b) No more than 4 credits may be in courses related to professional land surveying such as "engineering surveying," "municipal surveying," "route surveying," "highway surveying," "topographic surveying," "geodetic surveying," "photogrammetry," "cartography," "construction surveying," "air photo interpretation," "artillery surveying," "geographic information systems," "land information systems" and "remote sensing systems."

(2) To meet the educational requirements of s. 443.06 (2) (am), Stats., an applicant for licensure as a professional land surveyor shall have done either of the following:

(a) Received a bachelor's degree in a course of study in professional land surveying of not less than 4 years duration from a college or university accredited by a regional accrediting agency approved by the state where the college or university is located.

(b) Received a bachelor's degree in civil engineering of not less than 4 years duration from a college or university accredited by a regional accrediting agency approved by the state where the college or university is located. The curriculum shall include no less than 16 of 24 semester credits in courses concentrating on the legal principles of professional land surveying and the technical aspects of professional land surveying. These courses shall include areas of study such as research of public and private records, principles of evidence and the interpretation of written documents used in boundary determination, the study of the legal elements of professional land surveying including those involving resurveys, boundary disputes, defective descriptions, riparian rights and adverse possession, the study of the professional and judicial functions of a professional land surveyor, the study of surveying methods for measuring distance and angular values, note keeping, computation and writing descriptions and the study of the Wisconsin statutes and local ordinances relating to the preparation of subdivision maps and plats, other land divisions and real property creation. The applicant may be allowed to receive up to 8 credits in certain other courses relating to surveying. These courses may include "engineering surveying," "municipal surveying," "route surveying," "highway surveying," "topographic surveying," "geodetic surveying," "photogrammetry," "cartography," "construction surveying," "air photo interpretation," "artillery surveying," "geographic information systems," "land information systems" and "remote sensing systems."

**History:** Cr. Register, February, 1987, No. 374, eff. 3-1-87; am. (intro.), Register, January, 1999, No. 517, eff. 2-1-99; renum. (intro.), (1) and (2) to be (1) (intro.), (a) and (b) and am. (1) (intro.), cr. (2), Register, November, 2000, No. 539, eff. 12-1-00; CR 01-092; am. (2) (b) Register June 2002 No. 558, eff. 7-1-03; CR 06-057; am. (1) (b) and (2) (b), Register May 2007 No. 617, eff. 6-1-07; correction in (1) made under s. 13.92 (4) (b) 7., Stats., Register May 2015 No. 713; CR 15-036; am. (title), (1) (intro.), (a), (b), (2) (a), (b) Register January 2016 No. 721, eff. 2-1-16; Correc-

tion under s. 35.17, Stats., in (1) (b) Register January 2016 No. 721; CR 15-040; am. (1) Register May 2016 No. 725, eff. 6-1-16.

**A-E 6.05 Examination.** (1) LAND SURVEYOR EXAMINATION REQUIRED. Applicants for licensure as a professional land surveyor shall take and pass an examination. The examination parts are the national fundamentals of surveying examination, the national principles and practice of surveying examination and the state jurisdictional examination, which is relative to Wisconsin specific practice. Each of the 3 required examinations is scored separately.

(2) SCOPE OF WRITTEN EXAMINATION. (a) The fundamentals of land surveying examination requires an understanding of mathematics, physics, surveying methods for measuring horizontal, vertical and angular values, topographic and photogrammetric mapping, notekeeping, property surveys, computations, descriptions and plats.

(b) The national principles and practice examination and the state jurisdictional examination require an ability to apply principles and judgment to problems involving the U.S. system of public land surveys, Wisconsin plane coordinate surveys, the relocation of lost and obliterated corners, the legal essentials of resurveys, disputed boundaries, defective deed descriptions, riparian rights, adverse possession, the Wisconsin statutes relating to land surveying including the preparation and filing of plats, the writing and interpreting of land descriptions, the technical essentials of professional land surveying and subdivision of lands including practical problems requiring a knowledge of the basic theory and fundamental concepts of field astronomy, geometry of curves, topography and photogrammetry.

(3) TIME PERIOD FOR EXAMINATION. Applicants for licensure as a land surveyor must take and pass the fundamentals of surveying examination, the national principles and practice surveying examination, and the state jurisdictional examination within 4 years of applying for licensure.

(6) EXAMINATION AND REFUND FEES. The fee for land surveyor examinations and requirements for refund of fees are specified in s. 440.05, Stats., and ch. SPS 4.

(7) EXAMINATION GRADING. The passing scores set by the board represent the minimum competency required to protect public health and safety. Experience rating may not be weighed as part of the examination grade.

(8) REEXAMINATION PROCEDURE. An applicant for a land surveyor examination who fails an examination or any part of an examination may retake any part of the examination failed at a regularly-scheduled administration of the examination. If an applicant fails to pass on reexamination of the parts failed, or the current examination parts equivalent to the parts failed, within 4 years from the date of receipt of the results of the first failure of the examination or any part of the examination, the applicant is required to take and pass the entire examination. If the applicant retakes the entire examination, the applicant shall pay the original examination fee under s. 440.05 (1), Stats. The board shall determine which parts of a current examination are equivalent to the examination parts failed by an applicant.

**Note:** A list of all current examination fees may be obtained at no charge from the Office of Examinations, Department of Safety and Professional Services, 1400 East Washington Avenue, P.O. Box 8935, Madison, WI 53708.

(10) CHEATING. Any applicant for licensure who receives aid or cheats in any other manner in connection with the examination shall be barred from completing the examination or shall not be given a passing grade, or both.

**History:** Cr. Register, February, 1987, No. 374, eff. 3-1-87; am. (1) and (6), Register, January, 1993, No. 445, eff. 2-1-93; am. (8), Register, June, 1994, No. 462, eff. 7-1-94; am. (9) (b), Register, March, 1996, No. 483, eff. 4-1-96; am. (9) (a), Register, October, 1996, No. 490, eff. 11-1-96; rn. (7) (a) to be (7) and am., r. (7) (b), cr. (10), Register, January, 1999, No. 517, eff. 2-1-99; am. (1), (3) (a) and (b), cr. (3) (c) and (d), Register, November, 2000, No. 539, eff. 12-1-00; CR 04-118; am. (1) and (2) (b) Register December 2005 No. 600, eff. 1-1-06; correction in (6) made under s. 13.92 (4) (b) 7., Stats., Register November 2011 No. 671; CR 15-036; am. (1) (intro.), (2) (b), (10) Register January 2016 No. 721, eff. 2-1-16; CR 15-040; r. and recr. (3), r. (4), (5), (9) Register May 2016 No. 725, eff. 6-1-16.

**A-E 6.06 Application contents.** An application for licensure shall include all of the following:

- (1) Transcripts verifying the applicant's education.
- (2) References from at least 5 individuals having personal knowledge of the applicant's experience in land surveying, 3 of whom are registered land surveyors.
- (3) A chronological history of the applicant's employment.

(4) Any additional data, exhibits or references indicating the extent and quality of the applicant's experience which the land surveyor section may require.

**History:** Cr. Register, February, 1987, No. 374, eff. 3-1-87; renum. and am. (2), Register, January, 1993, No. 445, eff. 2-1-93; correction made under s. 13.93, (2m) (b) 1., Stats., Register, March, 1993, No. 447; am. (intro.) to (3), Register, January, 1999, No. 517, eff. 2-1-99; CR 15-036: am. (intro.) Register January 2016 No. 721, eff. 2-1-16.