

## Chapter A-E 6

### LAND SURVEYOR REGISTRATION

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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 (4) and 443.06, Stats. The purpose of rules in this chapter is to interpret basic education, experience and examination requirements for registration as a land surveyor as specified in s. 443.06, Stats.

History: Cr. Register, February, 1987, No. 374, eff. 3-1-87.

**A-E 6.02 Application for registration.** Any 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.

**A-E 6.03 Land surveying experience.** (1) To qualify as "practice in 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 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.
  - b. Relocating lost and obliterated corners.
  - c. Establishing, reestablishing or 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.
  - h. Conducting resurveys.
  - i. Writing and interpreting land descriptions.
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.

d. Maps showing other divisions of land not controlled by statute or ordinance.

e. Official plats or maps of land in this state.

(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.
- (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, b., 2. (intro.) to c. and (b) 1. to 4., Register, January, 1999, No. 517, eff. 2-1-99.

**A-E 6.04 Educational requirements for land surveyors.** (1) To meet the educational requirements of s. 443.06 (2) (a) and (bm), Stats., an applicant for registration as a land surveyor shall have satisfactorily completed at least 60 semester credits in a civil engineering or land surveying curriculum 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 land surveying and the technical aspects of 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 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 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 land surveying such as "Engineering Surveying", "Municipal Surveying", "Route Surveying", "Highway Surveying", "Topographic Surveying", "Geodetic Surveying", "Photogrammetry", "Cartography", "Construction Surveying", "Air Photo Interpretation" and "Artillery Surveying".

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

- (a) Received a bachelor's degree in a course of study in 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; or
- (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 12 credits in courses concentrating on the legal principles of land surveying and the technical aspects of 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 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 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.

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.

**A-E 6.05 Examination.** (1) **LAND SURVEYOR EXAMINATION REQUIRED.** Applicants for registration as a land surveyor shall take and pass an examination. The examination parts are the fundamentals of surveying examination and the principles and practice examination. The principles and practice examination is divided into 2 sections, a "national" and a "state" section which are 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 principles and practice examination requires 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 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) **REQUIREMENTS FOR ENTRANCE TO EXAMINATIONS.** (a) Prior to July 1, 2000, to be eligible to take the "fundamentals of land surveying" examination, an applicant shall have complied with s. A-E 6.04 (1), or have at least 4 years of practice in land surveying, or a combination of work and training in a course in land surveying and practice in land surveying which totals at least 4 years.

(b) Prior to July 1, 2000, to be eligible to take the "principles and practice of land surveying" examination, an applicant shall have complied with s. A-E 6.04 (1) and have at least 2 years of approved practice in land surveying, or have at least 5 years of approved practice in land surveying, or a combination of at least 5 years of approved work and training in a course in land surveying and practice in land surveying.

(c) After June 30, 2000, to be eligible to take the "fundamentals of land surveying" examination, an applicant shall have done one of the following:

1. Complied with s. A-E 6.04 (2).
2. Complied with s. A-E 6.04 (1).
3. Have at least 5 years of practice in land surveying, or a combination of work and training in a course in land surveying and practice in land surveying which totals at least 5 years.
4. Have completed an apprenticeship training course in land surveying prescribed by the department of workforce development, and engaged in a period of additional land surveying of a

satisfactory character that, when added to the period of apprenticeship, totals at least 6 years of land surveying practice.

(d) After June 30, 2000, to be eligible to take the "principles and practice of land surveying" examination, an applicant shall have done one of the following:

1. Complied with s. A-E 6.04 (2) and have at least one year of approved practice in land surveying.
2. Complied with s. A-E 6.04 (1) and have at least 3 years of approved practice in land surveying.
3. Have at least 9 years of approved practice in land surveying, or a combination of at least 9 years of approved work and training in a course in land surveying and practice in land surveying.
4. Have completed an apprenticeship training course in land surveying prescribed by the department of workforce development, and engaged in a period of additional land surveying of a satisfactory character that, when added to the period of apprenticeship, totals at least 7 years of land surveying practice.

(4) **APPLICATION FOR EXAMINATION.** An application for examination must be filed with the board no later than 2 months before the scheduled date for the examination.

Note: An otherwise qualified applicant with a disability shall be provided with reasonable accommodations.

(5) **TIME, DATE AND SITE OF EXAMINATIONS.** The examinations shall be held at the time, date and site designated by the board.

(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. RL 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 Regulation and Licensing, 1400 East Washington Avenue, P.O. Box 8935, Madison, WI 53708.

(9) **EXAMINATION REVIEW.** (a) *One-year limitation.* An applicant for a land surveyor examination may review questions on any part of an examination failed by the applicant within one year from the date of the examination, as specified in s. 443.09 (6), Stats. An applicant may review the examination only once.

(b) *Review procedure.* Failing candidates shall be notified of the procedure to schedule a review of the appropriate examination parts. The applicant may take notes on the examination questions reviewed. No notes may be retained by the applicant following the review. The review may not take place within 30 days prior to a scheduled examination. If the section confirms the failing status following its review, the application shall be deemed incomplete, and the applicant may be reexamined under sub. (8).

(10) **CHEATING.** Any applicant for registration 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; m. (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.

**A-E 6.06 Application contents.** An application for registration 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.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

