

application of architectural principles and data and shall demonstrate applicant's progressive development of competence to do architectural work.

(2) Satisfactory work experience shall consist of related practical training including at least one year of experience in the design and construction of buildings preferably under the supervision of a then registered architect, professional engineer, or exempt person as defined in s. 443.01 (9), Stats. prior or subsequent to acquisition of approved educational equivalents.

(3) To qualify as satisfactory architectural experience employment must consist of at least 2 or more continuous months.

(4) Full or partial credit may be allowed for part-time (20 hours/week minimum) work experience, and architectural related teaching or research (with degree) subject to review by the architects' section.

**History:** Cr. Register, June, 1977, No. 268, eff. 7-1-77.

**A-E 1.15 Examinations.** (1) **ELIGIBILITY.** An applicant to be eligible to enter a scheduled examination must file his application for registration or certification or request for re-examination together with the required fees with the secretary 2 months before the scheduled date for the examination.

(2) **FORFEITURE OF FEES.** In the event an applicant has been notified in writing by the office of the secretary of the board that he has been assigned to a stated examination, and he fails to appear for such examination his fee shall not be refundable unless he has been excused from such obligation 10 days prior to such examination or unless he submits to the board ample proof that he was unable to be present. Such proof must be in the office of the board at least 2 months before a future examination which he may desire to take if his former fee is to be considered for use in connection with such examination.

(3) **EXAMINATION RETAKES.** An applicant who upon taking any portion of the board's architectural, engineering, design of engineering systems, or land surveying examinations for the first time fails a portion or all of that examination may, upon request and payment of the re-examination fee, retake all of it, or the portions of it failed, during any 3 of the 6 semi-annual examinations next following the first examination written. If the applicant fails to complete passing the entire examination during any 3 of the 6 semi-annual examinations next following the first examination written, the applicant shall;

(a) Be ineligible to take further examinations for a period of one year.

(b) Revert to the status of a new applicant and be required to take all portions of the examination unless otherwise approved in advance by the board.

(c) Be required to furnish proof that since his last failure he has further prepared himself by education work, or practical experience before being admitted to additional examinations.

(4) **EXAMINATIONS FOR ARCHITECTS.** (a) *Examination required.* All applicants for registration as architects, except those applying under s. 443.01 (11) Stats. must complete an examination consisting of sections

covering: Architectural Sciences and Technology (Structure, Construction, Environmental Control), Architectural Design, Product Development, Professional Administration, and Historical and Theoretical Context.

(b) *Time and place of examinations.* Examinations will be held at sites and on dates designated by the board.

(c) *Scope of examinations.* Examinations administered to applicants seek to determine the applicant's preparedness to exercise skills likely to be needed by an architect practicing architecture at the time of the examination. Each examination, prior to being offered by the examining board, is reviewed by the architects' section to determine that the examination is reasonably related to the skills likely to be needed by a practicing architect and that the examination tests the applicant's preparedness to exercise such skills. The examination will include material relating to the practice of architecture in the state of Wisconsin, with emphasis placed on Wisconsin law, including the registration law for architects, the board's rules, the design needs of people with physical disabilities and relevant statutes, codes and procedures of the department of industry, labor and human relations and other state agencies relating to the practice of architecture.

(d) *Requirements for entrance to the examination.* To be eligible to enter a scheduled examination, an applicant must have 4 years of qualifying academic credit or 4 years of qualifying architectural work experience or a combination of academic credit and architectural work experience which totals 4 years.

(5) **WRITTEN EXAMINATIONS FOR ENGINEER-IN-TRAINING AND PROFESSIONAL ENGINEER.** (a) *Examinations required.* 1. For certification as engineer-in-training—fundamentals examination. Total 1 day (8 hours).

2. For registration as professional engineer.

a. If certified as engineer-in-training—principles and practice examination. Total 1 day (8 hours).

b. If not certified as engineer-in-training—fundamentals examination and principles and practice examination. Total 2 days (16 hours).

(b) *Place and time of examinations.* The examinations will be held at sites and on dates designated by the board.

(c) *Grading of written examinations, passing grades and retakes.* Experience ratings will not be weighed as a part of the examinations.

(d) *Scope of written examinations.* 1. Fundamentals examination — requires an understanding of the physical and mathematical sciences involved in the fundamentals of engineering.

2. Principles and practice examination—requires ability to apply engineering principles and judgment to problems in general engineering fields such as chemical, civil, electrical and mechanical fields. Questions involving economic analysis and the design needs of people with physical disabilities and relevant statutes and codes will be included.

(e) *Requirements for entrance to examinations.* 1. To be eligible to enter the "Fundamentals of Engineering" section of the examination, an applicant must have 4 years of qualifying engineering work experience, or a combination of academic credit or engineering work experience

which totals 4 years. Applicants who have obtained senior standing in an educational program of study of at least 4 years which leads to a baccalaureate degree in engineering or engineering technology may enter the "Fundamentals of Engineering" section of the examination.

2. To be eligible to enter the "Principles and Practice of Engineering" section of the examination, an applicant must have 3 years of qualifying engineering work experience, plus the requirement of the above paragraph.

(6) **EXAMINATIONS FOR LAND SURVEYORS.** (a) Satisfactory completion of 2 examinations is required for registration as a land surveyor. The 2 examinations are: "Fundamentals of Land Surveying" (1 day, 8 hours) and "Principles and Practice" (1 day, 8 hours).

(b) *Place of examinations.* The examinations will be held at sites designated by the board.

(c) *Time of examinations.* To be arranged.

(d) *Grading of written examinations, passing grades.* 1. Experience ratings will not be weighed as part of the examinations.

2. On each 8 hour examination the passing grade shall be at least 70%.

(e) *Scope of written examinations.* 1. **Fundamentals of Land Surveying:** 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.

2. **Principles and Practice:** Requires 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 relative 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.

(f) *Requirements for entrance to examinations.* 1. To be eligible to enter the "Fundamentals of Land Surveying" section of the examination, an applicant must have completed at least 2 years of a course in land surveying as defined in s. A-E 1.18, or at least 4 years of practice in land surveying, or a combination of work or training in a course in land surveying and practice in land surveying which totals at least 4 years.

2. To be eligible to enter the "Principles and Practice of Land Surveying" section of the examination, an applicant must have completed at least 2 years of an approved course in land surveying as defined in s. A-E 1.18 and at least 2 years of approved practice in land surveying, or at least 5 years of approved practice in land surveying, or a combination of at least 5 years of approved work or training in a course in land surveying and practice in land surveying.

(7) **WRITTEN EXAMINATIONS FOR DESIGNER OF ENGINEERING SYSTEMS.**

(a) *Examinations required.* An examination is required for each field

and subfield thereunder, as designated in section A-E 1.20 (1), of these rules, in which an applicant seeks a designers' permit.

(b) *Place and time of examinations.* The examinations will be held at and on dates designated by the board.

(c) *Grading of written examinations.* Experience ratings will not be weighed as part of the examinations.

(d) *Scope of written examinations.* The examinations shall cover the application of the engineering technology related to the specific fields and subfields of engineering systems, as designated in section A-E 1.20 (1), of these rules.

(e) *Requirements for entrance to examinations.* 1. To be eligible to enter a written examination for a permit as a designer of engineering systems, an applicant must have 7 years of approved experience in specialized engineering design work, up to 4 years of which may be equivalent academic training or apprenticeship as provided in s. 443.01 (16) (a) 3, Stats.

**History:** 1-2-56; r. and recr. (3); am. (6) (e) 3., Register, February, 1961, No. 62, eff. 3-1-61; cr. (6), Register, August, 1965, No. 116, eff. 11-1-65; r. and recr. (3) (a), Register, November, 1966, No. 131, eff. 12-1-66; r. and recr. (4) (d), eff. 7-1-67; and r. and recr. (6), eff. 8-1-67; Register, April, 1967, No. 136; am. (5) (d) 2, (5) (f) 2 and (6) (a) 2, Register, July, 1968, No. 161, eff. 8-1-68; r. and recr. (5) (b) and (c) and (6) (b) and (c), Register, February, 1969, No. 168, eff. 3-1-69; am. (3), (6) (a) 2, and (7), Register, January, 1971, No. 181, eff. 2-1-71; r. and recr. (5), Register, September, 1971, No. 189, eff. 10-1-71; reprinted, Register, October, 1971, No. 190 to correct error; cr. (3), Register, May, 1972, No. 197, eff. 6-1-72; cr. (7), Register, December, 1972, No. 204, eff. 1-1-73; (4) (a), r. and recr. (4) (d), Register, March, 1973, No. 207, eff. 4-1-73; am. (4) (d) 1., Register, December, 1973, No. 216, eff. 1-1-74; r. and recr. (6) (a), (d) and (e), Register, July, 1974, No. 223, eff. 8-1-74; cr. (4) (e) and (f), Register, October, 1974, No. 226, eff. 11-1-74; am. (5) (d) 2, Register, November, 1975, No. 239, eff. 12-1-75; am. (4) (d) 2, Register, December, 1975, No. 240, eff. 1-1-76; emerg. r. and recr. (4), eff. 4-16-76; r. and recr. (4), Register, December, 1976, No. 252, eff. 1-1-77; am. (4) (a) and (c) 1, Register, June, 1977, No. 258, eff. 7-1-77; r. (6) (c) 2 and (7) (c) 2, Register, August, 1978, No. 272, eff. 9-1-78; r. and recr. (4) (a) to (c), cr. (5) (e), (6) (f) and (7) (a), Register, February, 1980, No. 290, eff. 3-1-80.

**A-E 1.16 Education as an experience equivalent for registration as a professional engineer.** (1) For the purpose of meeting experience requirements for registration as a professional engineer, an applicant may claim certain education as equivalent to experience in engineering as provided in s. 443.01 (6) (b) 4. The engineers' section grants an experience equivalent for education according to the table shown in (2).

(2) Table of Education and Experience Equivalents.

Education	Experience Equivalent with Degree	Experience Equivalent for Each Year of Education Without Degree
B.S. Engineering (ECPD accredited)	4 years	1 year
B.S. Engineering (Not accredited by Engineers Council for Professional Development-ECPD)	3½ years	¾ year
B.S. Engineering Technology (ECPD accredited)	3 years	¾ year
B.S. Engineering Related Sciences	3 years	¾ year

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(e.g. Physics, Chemistry, Math,  
etc.)

B.S. Engineering Technology (non-ECPD accredited)	Not more than 2½ years	⅓ year
Other B.S. Degrees	Not more than 2 years	½ year
Engineering Experience in ob- taining M.S. in Engineering	1 year	N/A
Engineering Experience in ob- taining Ph.D. in Engineering or Engineering Related Programs	1 year	N/A
Co-op credit shall be determined upon submission of satisfactory evidence to this board	To be deter- mined upon sub- mission of a record showing co-op experience.	Individual Case

History: Cr. Register, December, 1976, No. 252, eff. 1-1-77.