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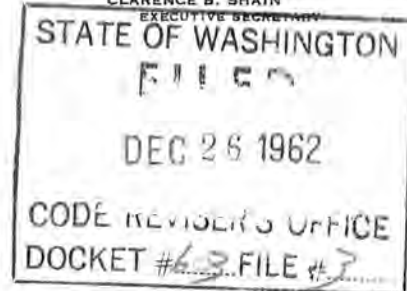


STATE OF WASHINGTON
BOARD OF REGISTRATION FOR
PROFESSIONAL ENGINEERS AND LAND SURVEYORS
DEPARTMENT OF LICENSES
OLYMPIA, WASHINGTON
BY-LAWS AND RULES OF PROCEDURE

of

WASHINGTON STATE BOARD OF REGISTRATION FOR
PROFESSIONAL ENGINEERS AND LAND SURVEYORS

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Excerpts from the law and rules and regulations of the Board covering the requirements for registration as professional engineer, engineer-in-training and/or land surveyor.

I. Registered Professional Engineer.

A. Applications

The deadlines for receipt of applications, properly filled out and accompanied by the \$15.00 application fee, are May 1st and November 1st of each year. Applications received after the deadline shall be held for the examination given six months later. Persons having previously taken the examination and failed are required to notify the Secretary by the above deadlines if they intend to appear for examination. In such cases a new application form is not required.

B. Experience Records

1. Evaluation of Academic Experience:

The first requirement for registration as a professional engineer is a specific record of eight years or more of approved experience in engineering work of a professional grade. The provisions of the law are that:

- (a) Graduation in an approved engineering curriculum of four years or more from an approved college is equivalent to four years of the required experience.
- (b) Satisfactory completion of each year of such approved engineering course is equivalent to one year of experience.
- (c) Graduation in a curriculum other than engineering at an approved college shall be considered as equivalent to two years of required experience.
- (d) Postgraduate study in engineering may be given credit up to one year.
- (e) Engineering teaching of a character satisfactory to the Board may be recognized as engineering experience, up to a maximum of two years.

2. Colleges Approved by the Board:

Engineering colleges outside the State of Washington are accepted by the Board only if accredited by the Engineers' Council for Professional Development. Colleges in the State of Washington which are presently accepted by the Board are: The University of Washington, Washington State University, Gonzaga University and Seattle University.

C. Examinations

The full examination requires two days for completion. Unless otherwise specified all examinations are of the open book type.

First Day: Engineering Fundamentals covering --

Mathematics	Physics
Chemistry	Fluid Mechanics
Thermodynamics	Mechanics
Mechanics of Materials	Electricity

Second Day: Specific branch of engineering under which the applicant desires to qualify; (except in Structural Engineering, see I H.)

1. The following rules shall apply:

- (a) Applicants who hold Washington Engineer-in-training certificates are only required to take the examination in the specific branch of engineering under which they desire to qualify. In addition an engineering report is required.
- (b) Applicants with 25 years or more of approved professional experience are required to take only the examination in the specific branch of engineering under which they desire to qualify. In addition an engineering report is required.
- (c) Applicants having less than 25 years of approved professional experience who do not hold an E.I.T. certificate shall take the fundamental examination and the examination in the specific branch of engineering under which they desire to qualify. In addition an engineering report is required.
- (d) Applicants who hold E.I.T. certificates issued to them by other states by virtue of a written examination comparable to that given by the State of Washington may be exempted from taking either the E.I.T. or the fundamental examination.

(e) All applicants regardless of experience record are required to take the examination in the specific branch of engineering under which they desire to qualify. In addition an engineering report is required.

2. When and Where Held:

Examinations for professional licenses are held each year during the first part of June at Seattle, Spokane, and Richland. Examinations at Seattle only are held during the first part of December each year.

D. Reports:

1. An engineering report composed by the applicant is required as a part of the examination and is a pre-requisite for taking the examination. The report is to be submitted to the Executive Secretary, State Board of Registration for Professional Engineers and Land Surveyors, Department of Licenses, Olympia, Washington, not later than May 1st or November 1st. Reports received after the deadline will be held for the examination given six months later.
2. The report shall be of a professional engineering character covering a specific piece of engineering work of which the applicant was in charge or on which he was responsibly engaged. The report must be sufficiently extensive so that the engineering recommendations and conclusions are supported by the material or calculations presented and consistent with the statement of the problem.
3. Reports which have been checked and approved shall be returned to the applicant on the day of the examination, if possible. Otherwise they will be returned by mail.
4. One report only is required of a professional engineer applicant, even though he may be qualified in several branches. For example, a second report is not required of a man registered as a civil engineer who takes an examination for structural engineer or mechanical engineer.

E. Evaluation of Candidates for Engineering Licenses:

1. An E.I.T. candidate who receives a grade below 70% in his examination, fails.
2. An E.I.T. candidate who receives a grade of 70% or above in his examination passes, and is excused from further fundamental examination.

3. A candidate having passed an E.I.T. examination is required to write only the branch examination and submit a report. The percentage required to pass the branch examination is 70%. This may be achieved by adding to the percentage made on the examination paper, one half of one percent for each year of experience satisfactory to the Board, (after the statutory eight years.) No candidate can be considered as having passed who receives less than 60% on his examination paper. The maximum percentage that will be allowed for experience is 10%.
4. Candidates who have not passed an E.I.T. examination and write fundamental and branch examinations, must receive a grade of 70% in the combined total. This may be made up by averaging the grades made on the examination papers, fundamental and branch, and adding to it one half of one percent for each year of experience, satisfactory to the Board, (after the statutory eight years.) No candidate can be considered as having passed who has received less than 60% on either fundamental or branch examination. Candidates will in addition be required to submit a report. The maximum percentage that can be allowed for experience is 10%. Fundamental and branch examinations may be written on successive days during the same examination period or written separately, i.e., at different examination periods, at the candidate's option.
5. Candidates who have had seventeen or more years of experience satisfactory to the Board (after the statutory eight years experience) may have the fundamental examination waived and be permitted to write the branch examination only. These candidates must attain 70% in the combined total of the examination and experience; allowing 10% maximum for the latter.
6. Grades for candidates in structural, hydraulic and sanitary engineering (see Section H) require a minimum passing grade of 70% on the written examination paper. No percentage points for experience will be credited towards the required passing grade.

F. Holders of E.I.T. Certificates:

1. At any time after the holder of an E.I.T. certificate has fulfilled the requirements of four additional years of approved professional experience, he may submit a new application for registration completely filled out and notarized and accompanied by the \$15.00 fee. The portion of the application under 6 "Professional Experience", shall be filled out in detail, giving names and address of employer and name of those familiar with work performed and indicating level of responsibility in each engagement.

A second transcript of college record is not required except for postgraduate study claimed as professional experience. It is absolutely essential for the applicant to indicate clearly in his professional application the fact that he holds Washington E.I.T. registration, and the year in which he obtained such registration. Otherwise he may not receive credit for his E.I.T. examination.

2. At the time the applicant submits his professional application, he must also submit his engineering report as required under Section D of this brochure.
3. Holders of E.I.T. certificates will appear on the second day of the regular examination sessions for examination in the specific branch of engineering under which they desire registration.

G. Fees. (All checks or money orders shall be made payable to State Treasurer.)

1. Registration:

The registration fee for professional engineer is \$25.00. The application must be accompanied by a check or money order for \$15.00; the remaining \$10.00 is to be paid before issuance of the certificate. Should the Board deny the issuance of the certificate, because of failure of the examination or any other reason, the initial \$15.00 will be retained as an examination fee. An applicant who fails one examination may be re-examined once without payment of additional fee, provided that he advise the Board of his intention to appear for examination prior to the filing date. If he fails again, however, he must submit an additional \$15.00 fee before he may re-appear for examination.

2. Additional Registration:

A professional engineer, licensed in Washington, who wishes to add a branch to his registration, may, if qualified by experience, take the additional examination by submitting a fee of \$15.00.

3. Renewal:

The annual fee for renewal of professional engineer license is \$7.50 and covers the calendar year (January 1-December 31). The fee must be paid before February 1st if the license is to remain in active standing. Licenses that have been allowed to lapse may be reinstated by payment of the current \$7.50 plus the reinstatement fee of \$7.50.

H. Branches of Registration:

The State of Washington conducts examinations and issues certificates in each of the following branches:

Aeronautical	Mechanical
Agricultural	Metallurgical
Ceramic	Mining
Chemical	Naval Architecture and Marine Engineering
Civil	* Sanitary
Electrical	* Structural
* Hydraulic	
Industrial	
Logging	
* Specialized branches,	
	Land Surveying

* Specialized Branches.

Hydraulic engineering, sanitary engineering and structural engineering are considered by the Board to be specialized branches of engineering; therefore applicants for registration in any one of these three fields shall have prior registration as a Professional Engineer and shall have not less than two full years of professional practice in the specialized field in which the applicant seeks registration, over and above the requirements for professional registration, (statutory eight years.)

The examination in structural engineering shall be of two full days duration. Examinations in hydraulic and sanitary engineering shall be of one day duration.

II Land Surveyor:

A. Experience Records:

The law requires six years or more of experience in land surveying of a character satisfactory to the Board.

1. Graduation from a school or college approved by the Board, including completion of a course in surveying, shall be equivalent to four years of experience.
2. Engineering teaching of a character satisfactory to the Board shall be given credit as experience up to a maximum of one year.

B. Examinations.

The land surveying examination consists of two full eight-hour sessions given at the regular examination period.

C. Reports .

As part of the examination, a typewritten report composed by the applicant, covering a specific case of land surveying work, not merely traverse, platting or simple plane surveying, of which the applicant was in charge or on which he was responsibly engaged must be submitted to the office of the Secretary of the Board, in Olympia not later than May 1st or November 1st.

D. Evaluation of Candidates for Land Surveyor Licenses.

1. Experience:

The required minimum of six years of acceptable experience (statutory experience) is a requisite for taking the examination. Each year of acceptable experience beyond six years adds 0.5% to the examination grade. A maximum of 10% for experience is allowed. Teaching experience may be allowed up to a maximum of one year.

2. Written Examination:

The written examination consists of two parts:

- (a) First day, Land Surveying --Rules and Fundamentals.
- (b) Second day, Land Surveying, --Practical Applied Surveying Problems.

A candidate must receive a percentage of 70% in the combined total of written examination and experience. This is made up by averaging the grades on the examination papers plus one half of one percent for each year of approved experience (after the statutory six years). No candidate can be considered as having passed who receives less than 60% on either the Rules and Fundamentals or Practical Applied Surveying portions of the examination. The maximum percentage that may be allowed for experience is 10%. The two branches of the examination may be written on successive days or written at different examination periods at the option of the candidate.

B. Fees. (All checks or money orders shall be made payable to State Treasurer.)

1. The registration fee for land surveyor is \$15.00, which must be submitted in the form of check or money order with the application. An applicant who fails one examination may be re-examined once without payment of additional fee. If he fails again, however, he must submit a further \$15.00 fee before he may re-appear for examination.
2. The annual fee for renewal of land surveyor license is \$7.50 and covers the calendar year (January 1-December 31). The fee must be paid before February 1st if the license is to remain in active standing. Licenses that have been allowed to lapse may be reinstated by payment of the current \$7.50 fee plus the reinstatement fee of \$7.50. A professional engineer who holds registration in land surveying pays only the \$7.50 professional engineer renewal fee, as in this case land surveying is considered an added branch.

III. Engineer-in-Training:

A. Applications

1. The law states that the required examination for professional engineer may be taken in two stages. The first stage may be taken upon acceptance of a completed application for engineer-in-training registration together with the fee of \$10.00.
2. The application for engineer-in-training shall contain
 - (1) General Information
 - (2) Education
 - (3) Technical Examinations
 - (4) Affidavit
 - (5) Membership in Societies
 - (6) Professional experience (if not a graduate)

Official transcripts of college record, if not attached to the application, shall be forwarded to the Secretary of the Board in Olympia as soon as they are available.

B. Experience

The law requires the completion of four years of experience prior to taking the engineer-in-training examination. This requirement may be fulfilled in either of two ways:

1. Graduation in an approved engineering curriculum of four years or more from a school or college approved by the Board.

2. Four years or more of experience in engineering work of a character acceptable to the Board.

C. Examinations.

1. The engineer-in-training examination is given near the end of each academic year at Gonzaga University in Spokane, Washington State University in Pullman, University of Washington in Seattle, and at other places as may from time to time be designated by the Board. The examination is of one day's duration and consists of two four-hour sessions which cover engineering fundamentals: mathematics, chemistry, thermodynamics, mechanics of materials, physics, fluid mechanics, mechanics and electricity. The minimum passing grade is 70%.
2. Those who pass this examination receive engineer-in-training certificates and are credited with having passed the engineering fundamentals portion of the regular professional engineering examination.

D. Fees. (All checks or money orders shall be made payable to State Treasurer.)

The \$10.00 engineer-in-training fee covers cost of examination and issuance of certificate. An applicant who fails one examination may be re-examined once without payment of additional fee. If he fails again, he must submit a further \$10.00 fee before he may re-appear for examination. There is no annual renewal fee for engineers-in-training.

IV. Reciprocity Registration:

A. Requirements:

1. The Board may issue a certificate as a professional engineer or land surveyor to any holder of a certificate of registration issued by any state, territory, or possession of the United States, or by any country that gives like consideration on a reciprocal basis, to persons who have been registered by examination in this state. Applicants from states requiring an additional examination from Washington Registered Engineers who received their license by examination, shall be required to pass an examination in this state to complete the requirement for registration in Washington.

Registration in branches other than those listed in Section 'H' may be granted by reciprocity, provided that the applicant holds a degree as such from an accredited university or institution of higher learning and was originally licensed in that branch by an examination of a type considered to be comparable to the type of examination given in the State of Washington.

2. The application for reciprocity registration must be accompanied by a check or money order for \$15.00, and must be completely filled out, including the interstate certificate from the state in which the applicant holds registration.
3. Applicants for reciprocity registration are not required to submit an engineering report. However, if at any time a registrant licensed by reciprocity desires to add land surveying or any other branch to his registration by examination, he may be required to submit a satisfactory engineering report, and a fee of \$15.00.
4. No license will be given by reciprocity in the specialized branches of engineering, namely, Hydraulic, Sanitary and Structural.

B. Fees. (All checks or money orders shall be made payable to State Treasurer.)

The fee for reciprocity registration in professional engineering and land surveying is \$15.00, to be submitted at the time of the application.



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GOVERNOR

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STATE OF WASHINGTON
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DEPARTMENT OF LICENSES
OLYMPIA, WASHINGTON

December 26, 1962

KENNETH P. NORRIE, SPOKANE
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JAMES G. MCGIVERN, SPOKANE
JOHN S. ABEL, TACOMA
HARRISON W. KRAMER, SEATTLE
F. R. BERGSETH, SEATTLE
CLARENCE B. SHAIN
EXECUTIVE SECRETARY

Richard O. White
Code Reviser
State of Washington
Legislative Building
Olympia, Washington

Dear Mr. White:

Attached hereto is a formal draft of the Rules and Regulations adopted October 26, 1962 at a Public Hearing by the Washington State Board of Registration for Professional Engineers and Land Surveyors. A preliminary copy of this draft was placed in your hands approximately two months ago. These rules differ in some small respects from the preliminary draft.

This document will be included in a brochure and roster that shortly will be distributed to persons interested in obtain an engineering license. It is essential that it be published as early as possible.

Two copies are enclosed, please return one to this office with your certification.

Very truly yours,

CLARENCE B SHAIN

Executive-Secretary, State Board of
Registration for Professional Engineers
and Land Surveyors

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