## REPLACED, REGISTER, February, 1961

## WISCONSIN ADMINISTRATIVE CODE

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) EXPERIENCE REQUIREMENT. An applicant, who is a graduate of an approved curriculum or who is certified as an engineer-in-training but who has had insufficient experience to qualify for registration, may take the appropriate examination at any of the scheduled dates but registration will not be granted until the required experience has been completed.

(4) EXAMINATIONS FOR ARCHITECTS. (a) *Examination required.* The objective of the board is to conduct its examinations for registration as an architect in the manner prescribed by the national council of architectural registration boards. This procedure is of considerable value to one registered on the basis of having passed such an examination if, at some future date, he might find it necessary to obtain reciprocal registration as an architect in another state.

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

(c) Time of examinations. To be arranged.

(d) Scope of examinations. Examinations will be both oral and written and the final grade will include a rating based on the applicants architectural training and practical experience. A personal audience before members of the board constitutes the oral portion of the examination. The written portion of the examination covers structural design and materials, graphic statics and truss design, selection and use of materials, mechanical equipment of buildings, counselling and administration, supervision, history of architecture, architectural composition and architectural design. Detailed information regarding examinations will be made available upon request to the board's office.

(5) EXAMINATIONS FOR ENGINEER-IN-TRAINING AND PROFESSIONAL ENGINEER. (a) *Examinations required.* 1. For certification as engineerin-training—Exam A, parts I and II. Each part 4 hours in length. Total 1 day (8 Hrs.).

2. For registration as professional engineer. a. If certified as engineer-in-training—Exam B, Parts I and II. Each part 4 hours in length. Total 1 day (8 Hrs.).

b. If not certified as engineer-in-training—Exam A, Parts I and II and Exam B, Parts I and II. Each part 4 hours in length. Total 2 days (16 Hrs.).

(b) Place of examinations. 1. Engineer-in-training. a. Madison, Wisconsin. b. Milwaukee, Wisconsin.

2. Professional engineer. a. Madison, Wisconsin.

(c) *Time of examinations*. To be arranged. (About first part of February and middle of June). The examinations given in Madison and Milwaukee shall be given at the same time.

(d) *Type of examination.* 1. Identical examinations will be given at the same time when given at more than one place.

2. Oral examinations will be at the discretion of the engineering division.

(e) Grading of written examinations, passing grades and retakes. 1. Experience ratings will not be weighed as a part of the examinations.

2. On each examination A or B a successful applicant must average at least 70%. He must not fall below 60% in Part I or Part II of either examination.

3. If an applicant fails in Parts I or II of Examination A or B, he may at the discretion of the board be not required to retake the parts he has passed, or he may be required to retake the entire examinations. If an applicant is to retake any parts of the examinations, he must do so within one year unless excused by the board.

(f) Scope of written examinations. 1. Examination A. Part I—This portion requires a knowledge of physics, chemistry, mechanics, and materials of construction such as could be acquired from courses which are a part of an accredited engineering curriculum.

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Reg 196 Part II—This portion requires a knowledge of the fundamentals of engineering and of the particular field pursued by the applicant such as could be acquired from courses in electrical circuits and machinery, hydraulics, thermo-dynamics, structures, and machine design which are a part of an accredited engineering curriculum.

2. Examination B. Part I—This portion is in a general engineering field selected by the applicant from a listing specified by the engineering division such as chemical, civil, electrical, mechanical, mining, metallurgical, etc. A separate examination will be offered for each general field.

Part II—Specialty. This portion is in a sub-field selected by the applicant from a listing specified by the engineering division. Questions involving engineering economics, ethics, and law may be included. The applicant may be required to prepare an engineering report from a list of assigned topics.

4