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BEELS 11-2018
CHAPTER 820
BOARD OF EXAMINERS FOR ENGINEERING AND LAND SURVEYING

FILING CAPTION: To amend rules related to qualification for professional engineering licensure and reapplications for registration.

EFFECTIVE DATE: 09/24/2018

AGENCY APPROVED DATE: 09/11/2018

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RULES:
820-010-0505, 820-010-1020

AMEND: 820-010-0505

REPEAL: Temporary 820-010-0505 from BEELS 8-2018

RULE TITLE: Biennial Renewal of Registration or Certification

NOTICE FILED DATE: 07/30/2018

RULE SUMMARY: The revisions to this rule allow a consistent process and qualification for registrants who have been delinquent for more than 5 years.

RULE TEXT:
(1) Registration with the Board as a professional engineer, professional land surveyor, or professional photogrammetrist is on a biennial renewal schedule. As a condition of registration renewal, registrants must demonstrate compliance with the continuing professional development requirements in OAR 820-010-0635. Verification of completing the required professional development requirements on the CPD Organizational Form and fee must be postmarked or hand delivered by 5:00 p.m. on the day of the expiration date of the registration. The biennial fee to renew a registration is described below:
(a) Professional Engineer — $190.00;
(b) Professional Land Surveyor — $190.00;
(c) Professional Photogrammetrist — $190.00.
(2) Certification as a certified water right examiner is on a biennial renewal schedule. The fee must be postmarked or hand delivered by 5:00 p.m. on the day of the expiration date of the certification. The biennial fee to renew a certification as a water right examiner is $40.00
(3) A delinquent fee of $80.00 will be assessed on the first day following the expiration date of each registration or certification for each biennial renewal period in which renewal fee payment or verification of having timely completed the required continuing professional development hours has not been submitted.
(a) A registration or certification that is delinquent for failure to pay the renewal fee will remain in “delinquent” status

until all delinquent fees that are due, and the required renewal fee, are paid.
(b) A registration or certification that is delinquent for failure to submit verification of having timely completed the required continuing professional development hours, when such hours have been completed, will remain in “delinquent” status until the delinquent fee is paid and the verification is submitted.
(c) A registration or certification that is suspended or for which renewal is refused because of failure to complete the required continuing professional development hours cannot be returned to active status or renewed until any delinquent fees and any biennial renewal fees due are paid, in addition to any conditions imposed by the Board for renewal or lifting of the suspension.
(4) Registrations in the delinquent or retired status for a period of 5 years or more may not be renewed (See ORS 672.170(4)). After a registration has been delinquent or retired for five years or more, the delinquent or retired registrants must apply for a new certificate of registration, under the qualification laws and rules that are in place at the time the new application is submitted.

STATUTORY/OTHER AUTHORITY: ORS 670.310, 672.168, 672.170, 672.255

STATUTES/OTHER IMPLEMENTED: ORS 672.002 - 672.325

AMEND: 820-010-1020

RULE TITLE: Education and Experience Requirements for Registration as a Professional Engineer

NOTICE FILED DATE: 07/30/2018

RULE SUMMARY: To clarify the education, course work evaluations and experience requirements for licensure as a professional engineer.

RULE TEXT:

The following combinations of education and experience may be used to satisfy subsection (3) of OAR 820-010-1000 (Qualifications for Registration as a Professional Engineer):

(1) Accredited Baccalaureate Degree in Engineering or Construction Engineering Management, and Four Years of Experience.

(a) Graduation from:

(A) EAC of ABET accredited baccalaureate of engineering degree program;

(B) ETAC of ABET accredited baccalaureate of engineering degree program; or

(C) ACCE accredited four-year baccalaureate of construction engineering management degree program; and

(b) Four years of active practice in engineering work as defined in OAR 820-005-0036, in the Applicant's area of competence, and under the direction and supervision of a registered professional engineer; four years of active practice in engineering work while registered as a Professional Engineer in another jurisdiction with NCEES membership; or, for an applicant with an accredited baccalaureate degree in engineering whose area of competence is found under ORS 672.005(1)(c) to (f), four years of active practice in the Applicant's area of competence and under the direction and supervision of a registered professional engineer or registered professional land surveyor.

(c) Graduation from a post-baccalaureate degree program in engineering, from a college or university that offers an EAC of ABET accredited undergraduate program in a discipline similar to that of the post-baccalaureate degree program, may be substituted for one year of the engineering work experience required in paragraph (b) of this subsection.

(d) Experience in academic instruction with full-time faculty status in an ABET accredited baccalaureate of engineering program, or in a post-baccalaureate engineering program with a corresponding ABET accredited baccalaureate of engineering program, may be substituted for no more than two years of the engineering work experience required in paragraph (b) of this rule. The academic instruction experience must be the teaching of engineering courses at the junior level or above to qualify under this paragraph.

(e) Education and experience described in paragraphs (c) and (d) of this rule, when combined, may be substituted for no more than two years of engineering work experience.

(2) Accredited Two Year Degrees, Specified Coursework, and Four Years of Experience.

(a) Graduation from:

(A) ETAC of ABET accredited two-year Engineering Technology program that includes:

(i) A total of at least 64 semester or 96 quarter hours;

(ii) At least 32 semester or 48 quarter hours in technical courses that cover skills and knowledge of appropriate methods, procedures, and techniques, as well as provide experience in established engineering procedures;

(iii) At least 16 semester or 24 quarter total hours in: math and science that include 4 semester or 6 quarter hours in basic sciences (physics, chemistry, earth and life sciences) and 8 semester or 12 quarter hours in mathematics (not including courses in computer programming or courses below the level of college algebra);

(iv) At least 9 semester or 13 quarter hours in social sciences, humanities and communications; or

(B) ETAC of ABET accredited two-year Associate of Applied Science degree program in Engineering Technology that includes:

(i) A total of at least 64 semester or 96 quarter hours;

(ii) At least 32 semester or 48 quarter hours in technical courses that cover skills and knowledge of appropriate methods, procedures, and techniques, as well as provide experience in established engineering procedures;

(iii) At least 16 semester or 24 quarter total hours in: math and science that include 4 semester or 6 quarter hours in

basic sciences (physics, chemistry, earth and life sciences) and 8 semester or 12 quarter hours in mathematics (not including courses in computer programming or courses below the level of college algebra);
(iv) At least 9 semester or 13 quarter hours in social sciences, humanities and communications; and
(b) Completion of additional course work in the Applicant's degree program, identified in subsection (2)(a) of this rule, or from another ABET accredited program, consisting of 21 semester or 32 quarter hours in at least six of the nine following subjects: Differential Equations, Physics, Statistics, Statics, Dynamics, Thermodynamics, Fluid Mechanics, Electrical Fundamentals, and Strength of Materials; and
(c) Four years of active practice in engineering work as defined in OAR 820-005-0036, in the Applicant's area of competence, and under the direction and supervision of a registered professional engineer; or four years of active practice in engineering work while registered in another jurisdiction with NCEES membership.
(3) Accredited Two Year Degrees and Six Years of Experience.
(a) Graduation from:
(A) ETAC of ABET accredited two-year Engineering Technology program that includes:
(i) A total of at least 64 semester or 96 quarter hours;
(ii) At least 32 semester or 48 quarter hours in technical courses that cover skills and knowledge of appropriate methods, procedures, and techniques, as well as provide experience in established engineering procedures;
(iii) At least 16 semester or 24 quarter total hours in: math and science that include 4 semester or 6 quarter hours in basic sciences (physics, chemistry, earth and life sciences) and 8 semester or 12 quarter hours in mathematics (not including courses in computer programming or courses below the level of college algebra); and,
(iv) At least 9 semester or 13 quarter hours in social sciences, humanities and communications; or
(B) ETAC of ABET accredited two-year Associate of Applied Science degree program in Engineering Technology that includes:
(i) A total of at least 64 semester or 96 quarter hours;
(ii) At least 32 semester or 48 quarter hours in technical courses that cover skills and knowledge of appropriate methods, procedures, and techniques, as well as provide experience in established engineering procedures;
(iii) At least 16 semester or 24 quarter total hours in: math and science that include 4 semester or 6 quarter hours in basic sciences (physics, chemistry, earth and life sciences) and 8 semester or 12 quarter hours in mathematics (not including courses in computer programming or courses below the level of college algebra); and,
(iv) At least 9 semester or 13 quarter hours in social sciences, humanities and communications; and
(b) Six years of active practice in engineering work as defined in OAR 820-005-0036, in the Applicant's area of competence, and under the direction and supervision of a registered professional engineer; or six years of active practice in engineering work while registered in another jurisdiction with NCEES membership.
(4) Graduate Degree in Engineering and Four Years of Experience.
(a) Graduation from:
(A) A graduate degree program in engineering at a college or university that offers an EAC of ABET accredited undergraduate degree in the same program as the graduate degree; or
(B) A graduate degree in a dual-program in engineering or multiple-program in engineering at a college or university that offers an EAC of ABET accredited undergraduate degree in at least one of the same programs as the graduate degree, and the Board determines the course work completed in the graduate degree under review is substantially equivalent to the subjects covered in one of the corresponding, EAC of ABET accredited, undergraduate programs at the same college or university;
(b) Completion of 21 semester or 32 quarter hours of engineering related technical course work, which must include at least six of the nine following subjects: Differential Equations, Physics, Statistics, Statics, Dynamics, Thermodynamics, Fluid Mechanics, Electrical Fundamentals, and Strength of Materials, and the coursework must be completed in:
(i) A graduate program or programs as described in paragraph (a) of this rule or another graduae program at a college or university that offers an EAC of ABET accredited undergraduate degree program in the same program as that graduate degree;

(ii) An ABET accredited undergraduate degree program; or
(iii) An undergraduate program that is not ABET accredited if the coursework submitted is accompanied by official documentation of transfer equivalency from an ABET accredited undergraduate program; and
(c) Four years of active practice in engineering work as defined in OAR 820-005-0036, in the Applicant's area of competence, and under the direction and supervision of a registered professional engineer; or four years of active practice in engineering work while registered in another jurisdiction with NCEES membership.
(5) NCEES Credentials Evaluation and Four Years of Experience.
(a) Completion of course work, not accredited by ABET, if the course work is evaluated by NCEES Credential Evaluations (The cost of any NCEES Credentials Evaluation must be borne by the Applicant), and NCEES determines that the course work is substantially equivalent to the educational requirements in subsection (1) of this rule; and
(b) Four years of active practice in engineering work as defined in OAR 820-005-0036, in the Applicant's area of competence, and under the direction and supervision of a registered professional engineer; or four years of active practice in engineering work while registered in another jurisdiction with NCEES membership.
(c) If not used to satisfy subsection (a) of this rule, graduation from a post-baccalaureate degree program in engineering, from a college or university that offers an EAC of ABET accredited undergraduate program in a discipline similar to that of the post-baccalaureate degree program, may be substituted for one year of the experience required in subsection (b) of the rule.
(6) NCEES Credentials Evaluation, with Additional Experience.
(a) Completion of course work evaluated by NCEES Credential Evaluations, which is determined by NCEES not to be substantially equivalent to the educational requirements in subsection (1) of this rule, course work from that program may be considered toward qualifying an Applicant for registration to the extent that the course work involves engineering principles. The cost of any NCEES Credentials Evaluation must be borne by the Applicant.
(b) The Board will determine the amount of credit, if any, the course work will be given towards qualifying the Applicant for registration as a Professional Engineer.
(c) When relying on course work credit that has been evaluated by NCEES Credential Evaluations but determined by NCEES not to be equivalent to a degree from a program identified in subsection (1) of this rule, an Applicant must also demonstrate that the Applicant's NCEES-credited course work, when combined with the Applicant's engineering work, is equivalent to 12 years of qualifying experience. For example, an Applicant who is granted two years of credit for course work under this subsection, must demonstrate 10 years of qualifying experience.
(d) Qualifying experience under this subsection is:
(A) Active practice in engineering work as defined in OAR 820-005-0036, in the Applicant's area of competence, and under the direction and supervision of a registered professional engineer; or
(B) Active practice in engineering work while registered in another jurisdiction with NCEES membership.
(7) Military Experience and Training.
(a) Military experience and training may be considered as qualifying for the required education and experience under this rule if is evaluated by the Joint Services Transcript (JST) and the Board determines that it is substantially equivalent to the education and experience listed in subsections (1), (2), (3) or (4) of this rule.
(b) Military experience and training that is not determined to be substantially equivalent to the education and experience listed in subsections (1), (2), (3) or (4) of this rule may be considered toward qualifying an Applicant for registration to the extent that the experience and training involves engineering principles or qualifies as experience.
(c) The Board will determine the amount of educational credit, if any, the military training and experience will be given towards qualifying the Applicant for registration as a Professional Engineer.
(d) If applying with military training and experience, whether by qualifying military experience alone, a combination of educational credit and qualifying military experience, or a combination of educational credit, qualifying military experience, and qualifying non-military experience, an Applicant must demonstrate that the Applicant's training and experience is equivalent to a total of 12 years of qualifying experience. For example, an Applicant who is granted two years of credit for military training and experience under this subsection, must demonstrate 10 years of qualifying

education, experience, or both outside of the military.

(e) Qualifying experience under this subsection is:

(A) Active practice in engineering work as defined in OAR 820-005-0036, in the Applicant's area of competence, and under the direction and supervision of a registered professional engineer; or

(B) Active practice in engineering work while registered in another jurisdiction with NCEES membership.

(8) Experience Only.

(a) 12 years of qualifying experience.

(b) Qualifying experience under this subsection is:

(A) Active practice in engineering work as defined in OAR 820-005-0036, in the Applicant's area of competence, and under the direction and supervision of a registered professional engineer; or

(B) Active practice in engineering work while registered in another jurisdiction with NCEES membership.

STATUTORY/OTHER AUTHORITY: ORS 670.310, 672.255

STATUTES/OTHER IMPLEMENTED: ORS 672.002 - 672.325