

Land Surveying Licensure



A Path of Opportunity

Presented By

**Oregon State Board of Examiners for
Engineering and Land Surveying**

Shantelle Meyer, Information Coordinator

Dan Linscheid, P.L.S., OSBEELS Board Member

Oregon State Board of Examiners for Engineering and Land Surveying



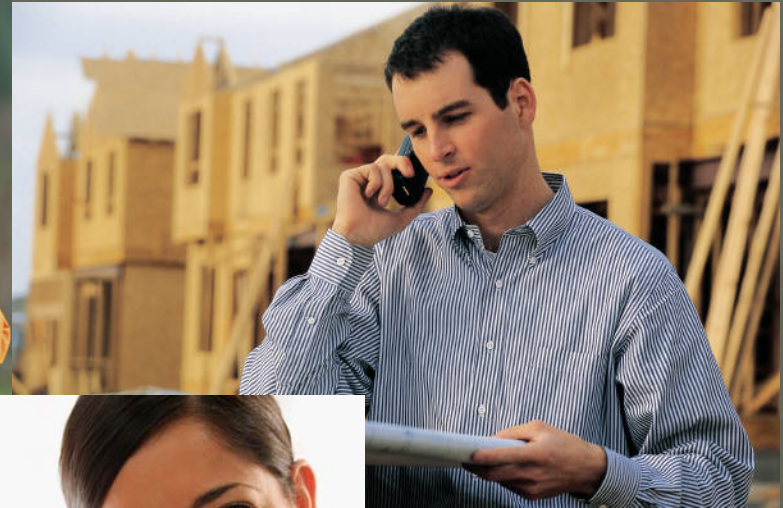
The mission of the Oregon State Board of Examiners for Engineering and Land Surveying is to regulate the practice of engineering, land surveying, and the practice of photogrammetry in the state as they relate to the public in safeguarding life, health and property.

5 Major Points

- ▶ What is Licensure?
- ▶ Why Bother?
- ▶ Steps to Licensure
- ▶ Fundamentals of Land Surveying (FLS)
Exam
- ▶ Professional Land Surveying (PLS)
Exams

What is Licensure?

Licensure is a recognized authorization to practice a particular profession.



National Council of Examiners for Engineering and Surveying

- ▶ National non-profit organization responsible for licensure of engineers and surveyors
- ▶ Prepares and administers FLS exam and National 6-Hour PLS exam
- ▶ Offers Records Program for licensed engineers and surveyors



Why Bother?

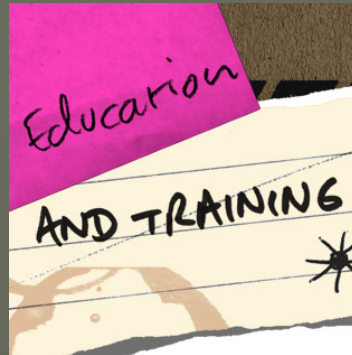


Steps to Licensure

- ▶ Qualify for the FLS Exam
- ▶ Successfully Complete the FLS Exam
- ▶ Qualify for the PLS Exam
- ▶ Successfully Complete the PLS Exam



Qualify for the FLS Exam



Education



Experience



Education and
Experience

Education



- Oregon Administrative Rule (OAR) 820-010-0226(2), (3)(a), (3)(b), (3)(c), (3)(d), (3)(e), (3)(f), (3)(g), or (3)(i)

- Graduate from an ABET accredited land surveying program
- Graduate from a Board approved engineering program with 11 semester/16 quarter hours of surveying instruction and surveying law



Experience



- **OAR 820-010-0228(6) states:**
“An applicant may qualify for admission to the FLS examination on the basis of 8 years of land surveying work without any qualifying degree or course work.”

Education and Experience

- OAR 820-010-0226(3)(h)
- OAR 820-010-0227(1), (3), (4), (5)



What is land surveying technician work?

OAR 820-010-0010(3) states:

"Technician work" means the time spent on work where the personal responsibility and technical knowledge required are small; that is, where the individual performance of a task, set and supervised by others, is all that is required. It shall also include all time spent in work before an applicant is 18 years old "Technician work" does not include engineering work as described in section (4), land surveying work as described in section (7) or photogrammetric work as described in section (10).

Engineering "technician work" includes, but is not limited to, work as an inspector, a laboratory assistant, a design assistant, a survey technician, or a draftsman. Land Surveying "technician work" includes, but is not limited to, work as a survey technician, a draftsman, an instrument plotter, or computation work under close supervision and not requiring the exercise of judgment in survey or map design, or decisions on boundary location. Photogrammetric mapping "technician work" includes but is not limited to, work as a photogrammetric mapping technician to perform technical photogrammetric or remote sensing tasks to extract spatial data from photographic imagery, digital imagery or other remotely-sensed data under close supervision and not requiring the exercise of judgment in project design or decisions related to authoritative photogrammetric measurements."

FLS Application by Education

- ▶ Application Form
- ▶ Application Fee
- ▶ Confirmation of Educational Requirements *(If applicable)*
- ▶ Official Transcript *(If applicable)*

FLS Application by Experience or Education and Experience

- ▶ Application Form
- ▶ Application Fee
- ▶ Experience Record
- ▶ 3 References (1 PLS)
- ▶ Official Transcript (*If applicable*)

Successfully Complete the FLS Exam



Land Surveying in Training (LSIT)
or Land Surveying Intern (LSI)

Qualify for the PLS Exam

OAR 820-010-0231(1)(a) states:

Applicants qualified under OAR 820-010-0226(3)(a), (3)(b), (3)(c), (3)(d), (3)(e), (3)(f), (3)(g), (3)(i), or 820-010-0228 shall complete four or more years of active practice in land surveying work in addition to the requirements for admission to examination for enrollment as an LSI. Applicants will be allowed to submit as qualifying work experience that work obtained based on employment up to the date of the PLS examination.

OAR 820-010-0231(1)(b) states:

Applicants qualified under OAR 820-010-0226(3)(h) shall complete six or more years of active practice in land surveying work in addition to the requirements for admission to examination for enrollment as an LSI.

Additional Education for the PLS Exam

OAR 820-010-0231(3) states:

Graduation from a post-baccalaureate degree program in engineering or surveying at a college or university which has an ABET accredited undergraduate program in the same field as the post-baccalaureate degree program may be substituted for one year of the four years of active practice required by this rule so long as the degree was not the basis for admission to the fundamental examination under OAR 820-010-0226(3)(g).

What is the Practice of Land Surveying?

As defined in ORS 672.005(2):

“Practice of Land Surveying” means doing any of the following:

- (a) Providing or offering to provide professional services that apply mathematics, geodesy and other sciences involve:
 - (A) The making of geometric measurements and gathering of related information pertaining to:
 - (i) The physical or legal features of the earth;
 - (ii) Improvements on the earth; or
 - (iii) The space above or below the earth, or
 - (B) The development of measurements and information described in the subparagraph (A) of this paragraph into graphics, data, maps, plans, reports, descriptions, projects, or other survey products.
- (b) Performing geodetic surveys.
- (c) Establishing, reestablishing or replacing boundaries or geodetic control monuments or reference points.
- (d) Locating, relocating, establishing, reestablishing or retracing any property lines or boundaries for any tract of land, road right-of-way or easement.

Practice of Land Surveying

- (e) Making any survey for the division or subdivision of a tract of land or for the consolidation of tracts of land.
- (f) Locating and laying out alignments, positions or elevations for the construction of fixed works.
- (g) Performing or offering to perform any investigation, interpretation or evaluation of, or any consultation or testimony about, any of the services described in paragraphs (a) to (f) of this subsection.
- (h) Collecting, preparing, manipulating or modifying data related to activities described in paragraphs (a) to (f) of this subsection, other than acting as a scrivener.

PLS Application

- ▶ Application Form
- ▶ Application Fee
- ▶ Experience Record
- ▶ 5 References (3 PE's)
- ▶ Official Transcript (*If applicable*)
- ▶ Verification of FLS Exam (*If applicable*)

Successfully Complete the PLS Exam



Professional Land Surveyor (PLS)



FLS and PLS Exams

When is it?

What's it like?

How do you prepare for it?



When is it?

Spring Exam:

Application Postmark Deadline

December 1st

Fall Exam:

Application Postmark Deadline

June 1st

What's it like?



How do you prepare for it?

NCEES Sample Questions / Solutions

www.ncees.org

Oregon 4-hour Exam Syllabus

www.osbeels.org

OSBEELS

670 Hawthorne Avenue SE, Suite 220

Salem, OR 97301

Phone: (503) 362-2666

Fax: (503) 362-5454

Lauren Olson, Registration Coordinator

OlsonL@osbeels.org

Jennifer Carmack, Administrative Specialist

CarmackJ@osbeels.org

Matt Bryan, Administrative Specialist

BryanM@osbeels.org