



**CLSA Education Committee**  
**Professional Library Publications and Resources**  
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Robert M McMillan, Committee Chair  
760-846-4491  
[Rob\\_LS@comcast.net](mailto:Rob_LS@comcast.net)

The Education Committee has compiled a list of reference materials to help identify appropriate professional library materials for continuing professional development. These are by no means complete lists, but reflect some of the publications and resources that are used by many land surveyors.

Professional Land Surveyors are often role models and mentors to subordinates. Developing mentor relationships is critical to staff development. This is best accomplished early in their careers and should consist of regular scheduled review sessions. With this in mind, the list begins with the recommended and additional references for Pre-LSIT development, as well as the LSIT and PLS exam preparation. References marked with a “%” are similar titles, those marked with a “\*” are free to download or free to download for CLSA members, and those marked “\$” may be very costly from retail sources. . We welcome comments and additions to improve these lists.

**Assist your staff in the Pre-LSIT stage:**

A BPELS/NCEES approved calculator such as the HP-33s or HP-35s

A recent edition of an elementary surveying textbook

Definitions of Surveying and Associated Terms - ACSM

*Basic Surveying Computations* – Zimmerman

*Land Surveyor Reference Manual* – Harbin

\**FS Exam Specifications* - NCEES

[http://www.ncees.org/exams/fundamentals/fs\\_exam\\_specs.pdf](http://www.ncees.org/exams/fundamentals/fs_exam_specs.pdf)

\* *FS Reference Formulas* - NCEES

[http://www.ncees.org/exams/study\\_materials/surveying\\_equations.pdf](http://www.ncees.org/exams/study_materials/surveying_equations.pdf)

*FS Sample Questions and Solutions* - NCEES

[http://www.ncees.org/exams/study\\_materials/](http://www.ncees.org/exams/study_materials/)

\**LS/LSIT Exam Preparation Course Workbooks and Videos* - Caltrans

<http://www.dot.ca.gov/hq/row/landsurveys/LSITWorkbook/WorkbookTOC.html>

\**Basic Surveying Theory and Practice* – Oregon DoT

[http://www.oregon.gov/ODOT/HWY/GEOMETRONICS/docs/BasicManual2000\\_02.pdf](http://www.oregon.gov/ODOT/HWY/GEOMETRONICS/docs/BasicManual2000_02.pdf)

A grammar textbook or reference

A basic math textbook

An algebra textbook

A geometry textbook

A trigonometry textbook

As an interest builder or inspiration, any books on history of practice in your area, such as:  
*Chaining the Land* – Uzes

Comments and feedback are appreciated.

*Lay of the Land - A History of Land Surveying in San Diego County - Pallamary*

**Assist your staff in LSIT (NCEES FS exam) preparation:**

ALL of the PRE-LSIT references listed above

Boundary Control and Legal Principles - Brown

*Writing Legal Descriptions* – Wattles

Calculator Instruction/Programming Manual

% *HP33s Surveying Tools* – [www.HP33sSurveyor.com](http://www.HP33sSurveyor.com)

% *Surveying Solutions for the HP 33s* – [www.SoftwarebyDZign.com](http://www.SoftwarebyDZign.com)

% *HP35s Surveying Tools* – [www.HP33sSurveyor.com](http://www.HP33sSurveyor.com)

% *HP35 Programming Manual* – [www.landsurveys.com/store/cart.php?m=product\\_list&c=5](http://www.landsurveys.com/store/cart.php?m=product_list&c=5)

\**NCEES FS Exam Specifications*

[http://www.ncees.org/exams/fundamentals/fs\\_exam\\_specs.pdf](http://www.ncees.org/exams/fundamentals/fs_exam_specs.pdf)

\**NCEES FS Reference Formulas*

[http://www.ncees.org/exams/study\\_materials/surveying\\_equations.pdf](http://www.ncees.org/exams/study_materials/surveying_equations.pdf)

*NCEES FS Sample Questions and Solutions*

[http://www.ncees.org/exams/study\\_materials/](http://www.ncees.org/exams/study_materials/)

\**Restoration of Lost or Obliterated Corners and Subdivision of Sections* – BLM

[http://www.dot.ca.gov/hq/row/landsurveys/Study\\_material/BLM\\_References/BLM\\_lost\\_oblit.pdf](http://www.dot.ca.gov/hq/row/landsurveys/Study_material/BLM_References/BLM_lost_oblit.pdf)

*Surveying Solved Problems for the FS and PS exams* - Van Sickle

% *Route Surveying and Design* - Meyer

% *Route Location and Surveying* – Hickerson

*Evidence & Procedures for Boundary Location* - Brown/Robillard/Wilson

*Ethics for the Professional Surveyor* - Mouland

*Elements of Photogrammetry with Applications in GIS* – Wolf & Dewitt

\**Geodesy for the layman* – NOAA (if review is needed)

[http://www.dot.ca.gov/hq/row/landsurveys/Study\\_material/Geodesy\\_laymans\\_guide.pdf](http://www.dot.ca.gov/hq/row/landsurveys/Study_material/Geodesy_laymans_guide.pdf)

% *Astronomy for Surveyors* – There are various authors for this title

**Assist your staff in PLS (California State-specific and NCEES PS exams) preparation:**

ALL of the Pre- LSIT and LSIT references listed above

\**CLSA LS Exam Guide* - CLSA **FREE DOWNLOAD FOR MEMBERS FROM CLSA STORE**

<http://www.californiasurveyors.org/>

\**Previous years LS Exams and grading plans* - BPELS

<http://www.californiasurveyors.org/> **MEMBER - FREE DOWNLOAD FROM CLSA STORE**

*Laws for the California Surveyor* – Minnick (Prior year edition)

*Prior year PLS Act* - CLSA

*Prior year Subdivision Map Act* - CLSA

*% Water Boundaries* – Cole

*% Water Boundaries* – Flushman

*1973 Manual of Instructions for the Survey of the Public Lands* - BLM

*2009 Manual of Survey Instructions* - BLM

\*Additional BLM Reference Materials

[http://www.dot.ca.gov/hq/row/landsurveys/Study\\_material/BLM\\_References/index.html](http://www.dot.ca.gov/hq/row/landsurveys/Study_material/BLM_References/index.html)

\**Surveys Manual Chapter 12, Construction* – Caltrans

\**Surveys Manual Chapter 13, Photogrammetry* – Caltrans

[http://www.dot.ca.gov/hq/row/landsurveys/SurveysManual/Manual\\_TOC.html](http://www.dot.ca.gov/hq/row/landsurveys/SurveysManual/Manual_TOC.html)

\**NCEES PS Exam Specifications*

[http://www.ncees.org/exams/professional/ps\\_exam\\_specs.pdf](http://www.ncees.org/exams/professional/ps_exam_specs.pdf)

*Advanced Land Descriptions* - Cuomo/Minnick

*CCS83 – A Practical Guide* – Sincek

% Similar content available at: <http://www.dot.ca.gov/hq/row/landsurveys/LSITWorkbook/11.pdf>

*Introduction to Geodesy* - Smith

*LS Review Manual* - Buckner

*CA LS License Review Manual* - Chelapati

\**Guide to the Preparation of Records of Survey and Corner Records* - CEAC

<http://www.ceaccounties.org/resources/1/Policy%20Areas/Survey/Resources/Approved%20CEAC%20Guide%203-27-09.pdf>

*Interpreting Land Records* - Wilson

*Errors in Practical Measurements* - Barry

*% GPS for Land Surveyors* - Van Sickle

*Easements and Reversions* - Wilson

*The California Law of Water Rights* - Hutchins

*River and Lake Boundaries* - Simpson

*Land Survey Systems* - McEntyre

*\$ Surveying and Boundaries* – Clark

*\$ The Legal Elements of Boundaries and Adjacent Properties* – Skelton

**PLS Continuing Professional Development References:**

ALL of the PRE-LSIT, LSIT, and LS references listed above  
CURRENT EDITIONS OF *Laws for the California Surveyor*  
*Surveying the Courtroom* - Briscoe

*The Law of Easements and Licenses in Land* - Bruce and Ely

*% GPS Satellite Surveying* – Leick

*Adjustment Computations – Spatial Data Analysis* - Ghilani

*Construction Project Management* – Gould & Joyce

*Construction Methods and Management* – Nunnally

*Remote Sensing and Image Interpretation* - Lillesand

*Land Development Handbook* - Dewberry & Davis

*A Pocket Guide to Business for Engineers and Surveyors* - Bergeron

*GIS Tutorial Workbook* - Gorr

*Airborne and Terrestrial Laser Scanning* - Vosselman and Maas

*Federal Land Boundary Cases and Codes* - Propst

*California Land Boundary Cases and Codes* - Propst

*1947 Manual of Instructions for the Survey of the Public Lands* - BLM

\**Surveys Manual* – Caltrans

[http://www.dot.ca.gov/hq/row/landsurveys/SurveysManual/Manual\\_TOC.html](http://www.dot.ca.gov/hq/row/landsurveys/SurveysManual/Manual_TOC.html)

\**User Guideline for Single Base Real Time NGSS Positioning* - National Geodetic Survey

[http://www.ngs.noaa.gov/web/news/NOAA\\_Releases\\_RealTime\\_Guidelines.shtml](http://www.ngs.noaa.gov/web/news/NOAA_Releases_RealTime_Guidelines.shtml)

\**Network RTK Study report & guidelines* - University of Newcastle

<http://www.tsa-uk.org.uk/>

\**AHMCT LiDAR final report* - University of California at Davis

[http://www.ahmct.ucdavis.edu/images/AHMCT\\_LidarFinalReport.pdf](http://www.ahmct.ucdavis.edu/images/AHMCT_LidarFinalReport.pdf)

\**Guide to the Preparation of Records of Survey and Corner Records* - CEAC

[http://www.dot.ca.gov/hq/row/landsurveys/Study\\_material/CEAC-Guide-09.pdf](http://www.dot.ca.gov/hq/row/landsurveys/Study_material/CEAC-Guide-09.pdf)

Certainly there are many more to add to this list. Your suggestions are welcome!

[Rob\\_LS@comcast.net](mailto:Rob_LS@comcast.net)

Comments and feedback are appreciated.