CLSA Education Committee
Exam Preparation Publications and Resources
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The Education Committee's Exam Preparation Subcommittee has compiled a list of reference materials to help candidates prepare for the LSIT Exam, and the PLS exam. These are by no means complete lists, but reflect some of the publications and resources that are considered industry standard references for exam preparation and that are used by many land surveyors. We welcome comments and additions to improve these lists. References marked with a "%" are similar titles, those marked with a "*" are free to download or free to download with CLSA membership, and those marked "$" may be very costly from retail sources. Certainly there are many more to add to this list. Your suggestions are welcome!

PRE-LSIT (NCEES FS exam) Essential References:
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
**Basic Surveying Theory and Practice* – Oregon DoT
http://www.oregon.gov/ODOT/HWY/GEOMETRONICS/docs/BasicManual2000_02.pdf
**LS/LSIT Exam Preparation Course Workbooks and Videos* - Caltrans
http://www.dot.ca.gov/hq/row/landsurveys/LSITWorkbook/WorkbookTOC.html

Additional Recommended References:
**FS Exam Specifications* - NCEES
http://www.ncees.org/exams/fundamentals/fs_exam_specs.pdf
**FS Reference Formulas* - NCEES
http://www.ncees.org/exams/study_materials/surveying_equations.pdf
FS Sample Questions and Solutions - NCEES
http://www.ncees.org/exams/study_materials/

Additional study references or textbooks may be required if candidate feels review is needed considering their self-evaluation with respect to the NCEES *FS Exam Specifications* such as:
A grammar textbook (if review is needed)
A basic math textbook (if review is needed)
An algebra textbook (if review is needed)
A geometry textbook (if review is needed)
A trigonometry textbook (if review is needed)

NOTES:
Pre-LSIT candidates may be interested in the NSPS Certified Survey Technician (CST) Program: http://www.nspsmo.org/cst/get_certified.shtml

Comments and feedback are appreciated.

LSIT (NCEES FS exam) Essential References:
ALL of the PRE-LSIT essential AND additional references
Boundary Control and Legal Principles – Brown
Writing Legal Descriptions – Wattles
Calculator Instruction/Programming Manual
% *HP33s Surveying Tools* – www.HP33sSurveyor.com
% Surveying Solutions for the HP 33s – www.SoftwarebyDZign.com
% HP35s Surveying Tools – www.HP33sSurveyor.com
% *HP35 Programming Manual* – 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
**NCEES FS Reference Formulas*
http://www.ncees.org/exams/study_materials/surveying_equations.pdf
NCEES FS Sample Questions and Solutions
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
*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

Additional Recommended References:
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
% Astronomy for Surveyors – There are various authors for this title

NOTES:
NCEES FS exam:
8 hours (4-hour morning session and 4-hour afternoon session)
170 multiple-choice (85 per session)
Exam is closed-book; reference (see errata) will be provided.

Comments and feedback are appreciated.