

Lightning Protection Engineering Seminar

(according to NFPA-780)

About the Seminar

This comprehensive 2-day seminar is designed for engineers, architects and others interested in covering the requirements of the National Fire Protection Association (NFPA) 780 - 2008 Edition, *Standard for the Installation of Lightning Protection Systems* and the methodology behind the requirements in various applications. A copy of the NFPA-780 book and a CD on Lightning Protection and Risk Assessment will be included along with the course study materials. You may bring a calculator and your laptop to the Seminar, but they are not required. (Expenses associated with continuing education may be tax deductible - please consult your tax advisor).

Course Outline

1. Principles of Lightning Protection

Review of the physics governing lightning protection system design.

2. Strike Termination

Defines strike termination devices and covers placement rules based on zone of protection modeling.

3. Conductors

General requirements for conductors used for current-carrying portions of the system in exposed and concealed areas.

4. Grounding

Considerations given for good grounding practices for lightning protection systems in variable soil conditions.

5. Potential Equalization

The basis for bonding to equalize potential of incoming services or internal building systems is analyzed using system design and surge protection devices.

6. Special Occupancies

Techniques cited in NFPA-780 to protect specific occupancies/appurtenances, including flammable and explosive materials storage, personnel shelters, masts, metal tanks, grain handling silos and more.

7. Maintenance & Inspection

Proper inspection for maintenance of the lightning protection system requires implementation of visual and instrument assisted testing procedures.

8. Risk Assessment

Examination of risk assessment tools available to determine the lightning hazard to a particular site. Based on Annex L of NFPA-780

Meet Your Speakers

Mitchell Guthrie

Mitchell Guthrie is a Senior Electrical Engineer with 30 years experience in lightning protection and risk assessment, including 20 years in lightning protection and grounding for explosives facilities. He is a member of UL Standards Technical Panels on Lightning Protection and Surge Protection, a 25-year member of NFPA-780, including 10 years as Chairman, and currently serves as Chairman of the IEC Committee on Lightning Protection (TC-81). He also operates his own consulting firm.

John Tobias, PhD., PE

Dr Tobias is a consulting engineer specializing in lightning protection and electrical safety. He serves as Chairman of the NFPA-780 Technical Committee, Reviewer of UL 96 and is US Deputy Technical Advisor for IEC TC-81. Dr. Tobias operates ElectroQuest, LLC, an electro-technology consulting firm and is a staff engineer for the US Army Communications-Electronics Safety Directorate.

Bud VanSickle

After 25 years with a major lightning protection design and manufacturing company, Van-Sickle became Executive Director of the Lightning Protection Institute, an industry trade association that promotes the proper design, installation and inspection of lightning protection systems according to NFPA-780. He is a member of the NFPA-780 Technical Committee.

Wednesday & Thursday

8:00 - 4:30

lunch & 2 beverage breaks daily

CSI - 1.5 units (15 hours)

*continuing education credits
available through*

*Construction Specifications Institute
please verify applicability
with your local professional board*

HSW approved

**Cost: \$650 - LPI member
\$725 - Non member**

Register early-space is limited

*For a full refund,
you must cancel
14 days prior to start of seminar*

*You will receive a confirmation -
please check it for accuracy*

July 30 - 31

Residence Inn @ Denver Airport

16490 E. 40th Circle

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Call 303-459-8000 for reservations

Preferred rate of \$149/night

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Lightning Protection Engineering
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- Member of LPI \$ 650.00
 Not a Member of LPI \$ 725.00

- July 30-31 Aurora, CO - Denver Airport
 Oct 1 - 2 Alexandria, VA

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We accept Discover, MasterCard and VISA**