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ITE: Designing for Compliance to UL 60950-1 2nd Edition, CAN/CSA-C22.2 No. 60950-1-07; 2007 and IEC 60950-1 2nd edition; 2005

Description



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Join Underwriters Laboratories® for our newly developed and redesigned workshop on Information Technology and Communications Equipment: Designing for Compliance to UL 60950-1 2nd Edition, CAN/CSA-C 22.2 No. 60950-1-07; 2007 and IEC 60950-1 2nd edition; 2005. Understanding the risks and how product safety standards address these risks can better equip you to design your products for compliance and meet international market requirements.

In this two-day workshop we will review product safety from a technical design perspective. Experienced UL instructors will cover a broad range of technical topics from circuits and isolation to over-voltage and acoustic pressure. We'll also review design considerations that can help you reduce risk in these various applications. You'll learn about other key compliance topics and how UL's online tools can help you select critical components, international licensing and how compliance is documented in IEC CB Scheme style reports. Participants will be provided with all the critical information needed to design for compliance to national and international standards widely used in the industry for safety of information technology and communications equipment.

Each participant will be given a copy of the UL 60950-1 2nd Edition Standard.

The topics covered in this workshop include:

- Development and organization of the Standard
- Basic safety principles of UL 60950
- Terminology
- Circuit characteristics and insulation
- Requirements for accessible circuits and parts
- Insulation coordination
- Enclosure design
- Supply connections and interconnecting cables
- Equipment connected to the telecommunications network and/or cable distribution system
- Typical product test plan
- Submitting Products to UL
- Notable differences between UL 60950-1 2nd Edition

Objectives

- Identify the notable differences between the latest versions of the UL and IEC Standards for Safety of Information Technology Equipment (ITE) and their predecessors
- Consider the impact of these revised standards on certification of ITE
- Apply critical design criteria that reduce the risks of fire, electric shock and physical hazards associated with ITE
- Design equipment to provide two levels of protection between the user and hazardous voltages, including the provision of insulation between different circuits
- Use insulation coordination concepts to specify critical clearances, creepage distances and distances through solid insulation
- Identify the requirements for different types of enclosures and internal plastic parts for particular products
- Learn the options and related requirements for connecting equipment to the mains supply, including special requirements for equipment connected to a DC mains supply
- Identify different types of telecommunication and cable distribution system circuits (e.g., TNV), and associated requirements for separation of these circuits from other circuits, protection of equipment from over-voltages due to power line cross and acoustic pressure
- Select critical components using UL online tools
- Design a typical product test plan using UL 60950-1

Target Audience

- Information technology and telecommunications design engineers and manufacturers
- Regulatory compliance engineers
- Product safety engineers
- Project leaders
- Product development

Customer Testimonial

"I was very pleased with the instructors who taught the class. They were engaging and very patient in answering our questions."

Good foundation in technical know ledge."

UL University's workshops are designed for and intended to serve individuals using and relying upon UL services. UL University reserves the right to limit workshop attendance strictly to the foregoing. In addition, UL University reserves the right to change, reschedule or cancel any workshop at any time.

Media	Time Requirement	Cost
Instructor-Led	2 days	\$950.00 USD

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Restrict To: 

Starting 7/15/2009 at 8:00 AM - 5:00 PM Hartford, CT This class is a multi-day event, with the following schedule:

7/15/2009-7/16/2009 8:00 AM-5:00 PM (EST)

The last cancellation date is 7/1/2009. [Hotel TBD - Click for more information](#)

Starting 10/27/2009 at 8:00 AM - 5:00 PM Northbrook, IL This class is a multi-day event, with the following schedule:

10/27/2009-10/28/2009 8:00 AM-5:00 PM (CST)

The last cancellation date is 10/13/2009. [View Location Information - UL Northbrook](#)

Starting 12/16/2009 at 8:00 AM - 5:00 PM San Jose, CA This class is a multi-day event, with the following schedule:

12/16/2009-12/17/2009 8:00 AM-5:00 PM (PST)

The last cancellation date is 12/2/2009. [View Location Information - UL San Jose](#)

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