

NTC COURSE SUMMARY

Fire Alarm System Design – Live Class

An understanding of proper fire alarm system design is a critical job function for anyone involved in fire alarm systems work. A proper understanding of the fire alarm codes helps the fire alarm professional to achieve the desired life safety results by designing and installing code-compliant fire alarm systems.

NTC's Fire Alarm System Design training is intended for fire alarm professionals who are involved in the design, sale, installation, troubleshooting, and servicing of fire alarm systems. This course discusses proper application of the fire alarm codes and reinforces the student's ability to properly apply the codes. Students attending this course will develop a stronger understanding of fire alarm systems, including the requirements of NFPA 72 (National Fire Alarm Code), NFPA 101 (Life Safety Code), NFPA 70 (National Electrical Code), and the IBC (International Building Code).

Students of this course will learn how fire alarm codes are used and how to apply them to their real-life projects. Students will experience fire alarm system design and code application by applying their knowledge to sample fire alarm system projects. The course is taught by experienced NICET Certified instructors who will guide the students through the design process.

This is a practical applications-based training course. The information covered in this training directly applies to everyday work in the industry. This course provides students with in depth information on code compliance and proven standard practices for the industry. Throughout this course there is an emphasis on safety, professional ethics, and doing the right thing. Those who attend this training will be better prepared to meet the professional challenges of the low voltage industry.

Students will receive a copy of the NTC Brown Book (Fire Alarm System Design & Installation) at the class. Students are encouraged to bring copies of NFPA 72 NFPA 70, NFPA 101, and IBC (International Building Code) to the class.

Who Should Attend

Technicians - Salespeople - Designers - Engineers - CAD personnel - Plans Reviewers - AHJs



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Fire Alarm Design Training

Course Description

Course Title: Fire Alarm Design Training

Course Type: Generic technical training

Intended Audience: Low voltage contracting company employees (installation, service, technical sales)

Course Length: 16 hours

Course Description:

This sixteen hour training course provides an in-depth look at fire alarm design process. This course covers the fire alarm design process, including documentation and application of codes. This course compares and contrasts the requirements of the International Building Code (IBC), and Life Safety Code (NFPA 101) for specific building occupancies. This covers the fire alarm requirements of the National Fire Alarm and Signaling Code (NFPA 72) and wiring requirements of the National Electrical Code (NFPA 70).

Course Objectives:

1. Understand the fire alarm design process
2. Understand the different types of fire alarm systems and their application
3. Understand how to apply the requirements of the IBC and NFPA 101 to buildings
4. Understand how to design fire alarm systems in compliance with NFPA 72
5. Understand how to wire fire alarm systems in compliance with NFPA 70

Fire Alarm Design Training

Course Outline

Subject	Time
<u>Day 1 of Training</u>	
Introduction to Fire Alarm Design	50 minutes
Break	10 minutes
Fire Alarm System Documentation	50 minutes
Break	10 minutes
Fire Alarm System Basics	50 minutes
Break	10 minutes
Application of IBC and NFPA 101	50 minutes
Lunch	60 minutes
Application of IBC and NFPA 101	50 minutes
Break	10 minutes
International Building Code (IBC)	50 minutes
Break	10 minutes
Application of IBC and NFPA 101	50 minutes
Break	10 minutes
Application of IBC and NFPA 101	50 minutes

Fire Alarm Design Training

Course Outline

Subject	Time
<u>Day 2 of Training</u>	
NFPA 72 Fire Alarm Requirements	50 minutes
Break	10 minutes
NFPA 72 Fire Alarm Requirements	50 minutes
Break	10 minutes
NFPA 72 Fire Alarm Requirements	50 minutes
Break	10 minutes
NFPA 72 Fire Alarm Requirements	50 minutes
Lunch	60 minutes
NFPA 70 wiring requirements	50 minutes
Break	10 minutes
Initiating Device Considerations	50 minutes
Break	10 minutes
Notification Appliance Considerations	50 minutes
Break	10 minutes
Emergency Control Functions	50 minutes