

LATE FALL 2017

PRODUCTS AND SOLUTIONS



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IT'S A BIG WORLD. LET'S PROTECT IT TOGETHER.™

NFPA® is more than an organization. It is a global network. A dedicated team. It is all of us.

Because of this, it is incumbent on all of us to continue working together, and pushing each other higher, to keep our world safe. From analyzing and learning from the terrible fires that we experience today, to helping the world's businesses move safely toward better environmental practices, to proactively planning the next generation of safety standards for new construction, NFPA and our partners are banding together to help pave the way to a future free of fire and electrical incidents.

Together, we can help solve our challenges. Together, we can overcome all obstacles. Together, we can protect life and property, as we are doing with the newly updated 2018 edition of *NFPA 70E*® for electrical workers and our development of *NFPA 3000* to set standards of safety for the brave men and women responding to terrifying active shooter events.

Our world is constantly changing. Luckily, with amazing men and women like you taking part in the mission of NFPA, we have the talent, knowledge, and passion to keep pace.



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TRAINING THAT HELPS YOU BE ONE OF THE BEST.

What better resource is there for your training than the people who help develop the codes you work by? Whether you participate online, in a classroom, or arrange a class on-site at your business, NFPA® trainings are based on the latest and most comprehensive understanding of the challenges you face and the best methods for dealing with them. Let us help you be better prepared for the important work you do.

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Based on our ongoing research and designed to address real needs in the marketplace, NFPA® certifications deliver serious value that you'll see in your daily work. They also speak volumes to your customers, colleagues, and peers about your commitment to your profession and your readiness to do your job and do it well. So take your career to the next level with certifications from the world's leading resource for fire and life safety knowledge.

Find info and schedules at nfpa.org/certification



EARNING A LIVING WITHOUT RISKING A LIFE.

How *NFPA 70E*® has evolved to help protect workers for nearly four decades.

As NFPA® prepares to launch the 2018 edition of *NFPA 70E*®: *Standard for Electrical Safety in the Workplace*®, it's interesting to look at how far this standard has come since it was first published back in 1979.

Originally, *70E* was created at the request of the Occupational Safety and Health Administration (OSHA). Since its inception, OSHA has been tasked with identifying those best capable of creating acceptable standards for workplace safety, and from the beginning the place they looked for the standard of electrical safety was *NFPA 70*®: *National Electrical Code*® (*NEC*®). But there was a problem. As an organization created to protect workers, OSHA was authorized only to adopt and enforce standards for worker safety, not for equipment or installations, which is the primary content of the *NEC*. So naturally, OSHA again turned to NFPA, this time to help create a sister code that would extend to workers in the electrical space. After three years of research and refinement, *NFPA 70E* was born.

Since that first edition, *70E* has adapted to keep pace with our changing world. The most significant was in 1995, when electrical shock was joined by arc flash hazards as major focuses. Arc flash, while far less common than shock, can be far more devastating. Simply put, arc flash is an unwanted electric discharge created by a short circuit or fault in the space between two electrodes, creating a sudden release of energy and heat at temperatures three times that of the surface of the sun. These events can completely vaporize many materials used as conductors, and workers standing up to 10 feet from the arc can experience life-threatening

burns, concussive waves of pressure, and danger from projectiles and molten metal. Luckily, we can mitigate arc flash hazards with the proper personal protective equipment and training, standards for which are now an important part of *NFPA 70E*.

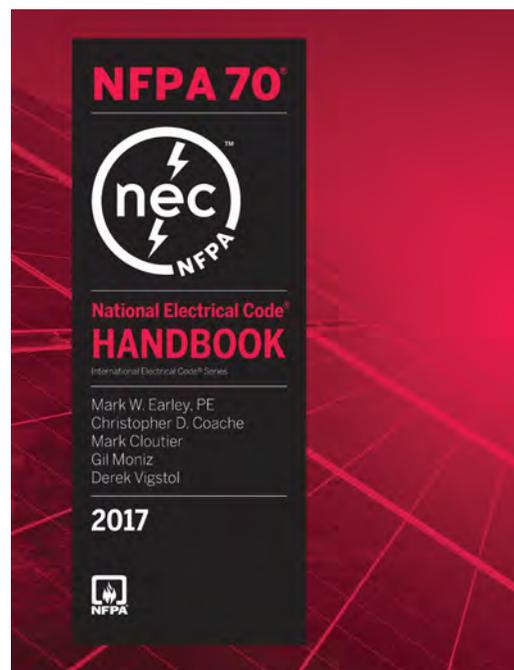
“...OSHA was authorized only to adopt and enforce standards for people, not equipment or installations...”

Other improvements were made over the years to keep each edition aligned with the most current *NEC* and make the standard easier to reference and implement. The upcoming 2018 edition of the *Handbook for Electrical Safety in the Workplace*® is no different. Along with the full text of *NFPA 70E*, it also includes special features such as “OSHA Connection,” which spells out how OSHA’s safety standards align with different *70E* requirements; a “Worker Alert” feature that highlights crucial electrical safety information for employees; as well as new case studies that provide context and real-world examples of the responsibilities of both employers and employees.

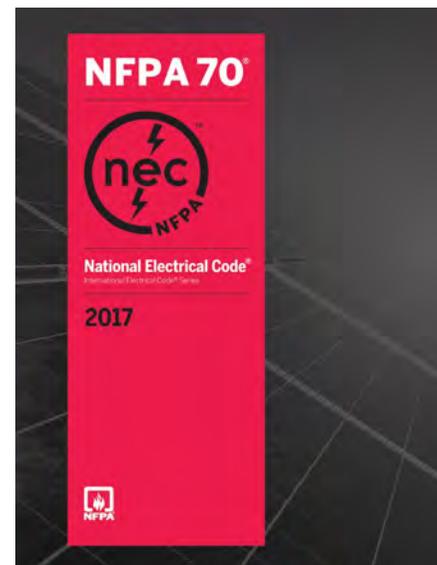
It’s been a long road for *NFPA 70E*. But when you consider the many lives and the vast amount of property it has helped protect, it’s clear that the road has been well worth traveling.

NFPA 70®

The 2017 edition of the NEC is here with revised requirements and emerging topics such as renewable energy and energy storage. With *NFPA 70: National Electrical Code*®, you're helping to protect those around you and build a safer world.



A



B

A. 2017 NFPA 70: National Electrical Code Handbook®

With the *NEC® Handbook*, you have the additional insight you need to help you resolve technical issues or explain code requirements to clients and staff.

\$185.50

CAB-70HB17

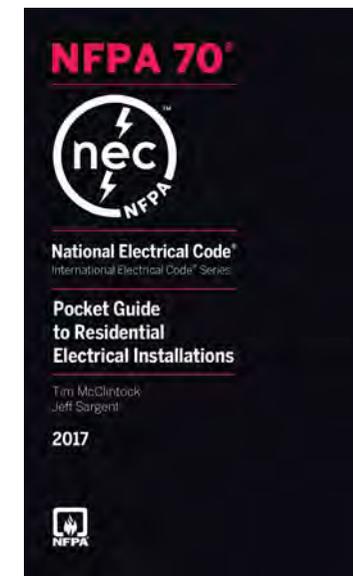


B. 2017 NFPA 70: National Electrical Code®

NFPA 70: National Electrical Code continues to evolve in order to meet expanding industry challenges, such as the continuing growth of renewable power technologies and modern hazards.

Starting at \$98.00

CAB-7017SB

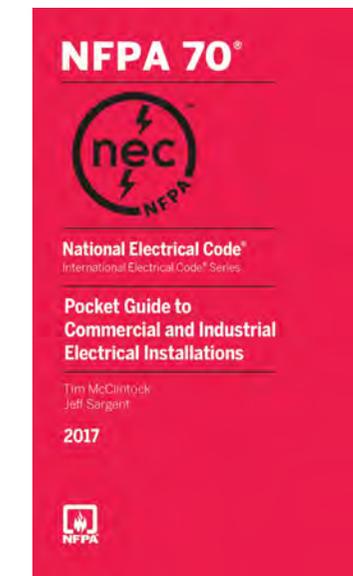


2017 NEC® Pocket Guide to Residential Electrical Installations

Get access to *NEC* requirements that apply within residential installations in our Pocket guide.

\$32.00

CAB-PGNECR17



2017 NEC® Pocket Guide to Commercial and Industrial Electrical Installations

Get only the sections of the *NEC*® that apply to commercial and industrial installations in this highly focused pocket guide.

\$32.00

CAB-PGNECC17



The “Big 3” Set

All the information you need to help get the job done safely is contained in this set, including *2017 NEC*, *2016 NFPA 70B*, and *2018 NFPA 70E*.*

\$213.75

CAB-SET178



2017 NEC Self-Adhesive Index Tabs

Keep the *NEC*'s most valuable information right at your fingertips with these convenient self-adhesive tabs. Set of 96.

\$18.00

CAB-NECTAB17

FOR THE FULL SUITE OF NFPA 70® PRODUCTS, VISIT SHOP.NFPA.ORG/70

NFPA 70® TRAINING

If you want to help ensure safe and compliant electrical installation and design, boost your know-how with *NEC*® training straight from the people who develop the code. Our experts guide you through discussions, activities, and real-world exercises designed to make you more confident in your ability to perform safe installations. Take advantage of our in-person classes near you or our convenient online options.

2017 NFPA 70 National Electrical Code® Essentials

3-Day Classroom Training

\$1,345.00

CAB-NEC023

3-Day Classroom Training
with Online Exam and Certificate

\$1,740.00

CAB-NEC02C3

2017 NEC Changes

Chapters 1-3 Online Training Course

\$108.00

CAB-OLS027

Chapters 4-5 Online Training Course

\$135.00

CAB-OLS030

2017 National Electrical Code

Online Training Series

\$324.00

CAB-OLS018

NEC Navigator™

Online Training Course

\$120.00

CAB-OL082

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GREAT DIGITAL TOOLS THAT SHARPEN YOUR OTHER TOOLS



Can you defeat the NEC Challenge®?

Test your knowledge of the *NEC*® with this fun quiz. Earn points, compete against peers, and hone your skills.



A pocketful of convenience

Keep your NFPA® eBooks and PDFs in your pocket – fully searchable and always available – for easy reference on the job.

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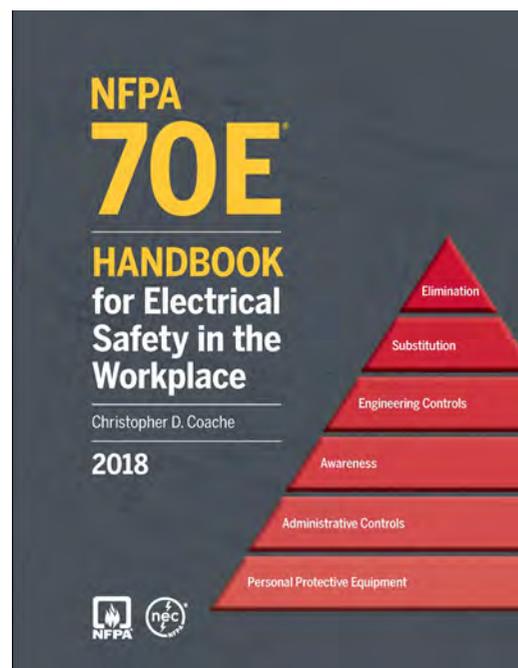
Created with first responders, for first responders

1st Responder Connection™ is an NFPA app with a wealth of current info, insights, and tools to keep you on the cutting edge.



NFPA 70E®

For electrical workers, safety is priority #1. Give your team the know-how that can help keep them safe from shock, electrocution, arc flash, and other electrical hazards with *NFPA 70E*. This is considered the gold standard for electrical safety in the workplace that can help you avoid potentially deadly disasters.



A



B

★ **A. NEW 2018 NFPA 70E: Handbook for Electrical Safety in the Workplace®**

Valuable additional information contained in this Handbook includes a new Worker Alert feature highlighting crucial safety information, and the OSHA Connection, correlating OSHA's electrical safety standards with certain *NFPA 70E* requirements.

\$160.00

CAB-70EHB18



★ **B. NEW 2018 NFPA 70E: Standard for Electrical Safety in the Workplace®**

Help assess electrical risks, determine hazards, select PPE, establish an electrically safe working area, and help avoid tragedies with *NFPA 70E*. Fully updated for 2018.

\$71.50

CAB-70E18



NFPA 70E® TRAINING & CERTIFICATION

Originally developed at OSHA's request, *NFPA 70E* is the key to help save lives, reduce liability, and avoid loss due to electrical incidents. Take your electrical safety skills to the next level with knowledge straight from the source. Our in-person 2-day course offered at locations across the country and convenient online training give you access to the skills that can help you save lives on the job. And with our industry-leading certifications, you can prove your value and help advance your career.

★ **NEW 2018 NFPA 70E Electrical Safety in the Workplace®**

2-Day Classroom Training
with Online Exam and Certificate

\$1,345.00

CAB-7E3

Online Training Series (avail. in November)

\$324.00

CAB-OLS028

Also Available in Spanish

Related Certifications

Any *NFPA 70E* training may be applied to the 40-hour electrical safety training requirement of the Certified Electrical Safety Compliance Professional (CESCP) and Certified Electrical Safety Worker (CESW) certifications.

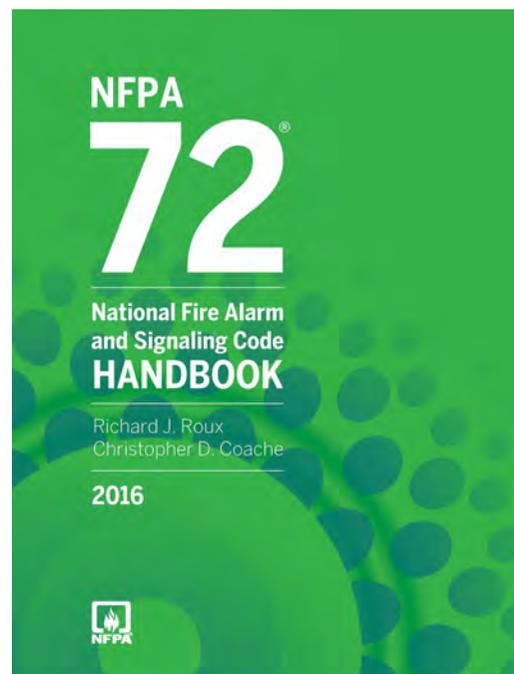


FOR THE FULL SUITE OF NFPA 70E® PRODUCTS, VISIT SHOP.NFPA.ORG/70E

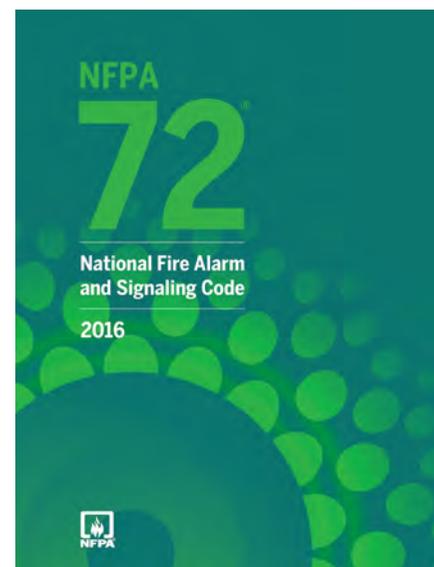
FOR MORE INFORMATION ON NFPA 70E® TRAINING & CERTIFICATION, VISIT SHOP.NFPA.ORG/70E

NFPA 72®

The 2016 edition of *NFPA 72* which includes the latest requirements for fire alarm systems and signaling technology, including the use of networks and Ethernet systems. This is the knowledge you need to design and maintain lifesaving alarm systems.



A



B

A. 2016 NFPA 72: National Fire Alarm and Signaling Code® Handbook

Go beyond the code: understand *NFPA 72* interpretations to confidently design and install systems with this redesigned full-color Handbook.

\$160.00

CAB-72HB16



B. 2016 NFPA 72: National Fire Alarm and Signaling Code

There's no substitute for the industry benchmark for design, installation, inspection, testing, and maintenance of emergency communications systems.

\$99.50

CAB-7216



NFPA 72® TRAINING & CERTIFICATION

Build your on-the-job expertise in alarm systems and signaling with our training courses. With our immersive 3-day courses and online training, you'll gain the knowledge you need to confidently apply *NFPA 72* to your workplace and help save lives with properly installed and maintained alarm and communications systems. We help develop the code, and we want to help you live it, with classes and certifications that can provide a vital boost to your career.

2016 NFPA 72: National Fire Alarm and Signaling Code®

3-Day Classroom Training

\$1,345.00

CAB-FAC3

3-Day Classroom Training
with Online Exam and Certificate

\$1,740.00

CAB-FASC3

Online Training Series

\$324.00

CAB-OLS013

Related Certifications

NFPA 72 training may help you prepare for this certification: NFPA Certified Fire Alarm ITM Specialist (CFAITMS).



FOR THE FULL SUITE OF NFPA 72® PRODUCTS, VISIT SHOP.NFPA.ORG/72

FOR MORE INFORMATION ON NFPA 72® TRAINING & CERTIFICATION, VISIT SHOP.NFPA.ORG/72

BRINGING PUBLIC SAFETY BACK TO THE PUBLIC.

Over the past year, several high-profile tragedies reminded us that no matter how far fire safety has come, there's always more to be done.

By Jim Pauley, NFPA® President

In June, the media was consumed with the aftermath of the Grenfell Tower fire in London, where 79 people died or were presumed dead. On its own, it was a horrendous tragedy. In combination with other recent events, it suggests disturbing trends that could represent a serious setback for fire safety worldwide.

In less than one year we saw 36 people perish in the Oakland Ghost Ship fire, a former warehouse being used as living and entertainment space. We saw a fire at a packaging factory in Bangladesh that killed 23 in a building with woefully inadequate fire protection. We saw a wildfire in Tennessee burn over 17,000 acres of land and kill 14 people.

Each of these incidents is an individual tragedy. Taken together, they are a collective example of how, either intentionally or accidentally, the fire prevention and protection system has been broken. A system that, through complacency, bad policy and placing economics of construction over safety, has let the public down.

“The system the public relies on for managing fire safety is broken and a single solution isn't the answer.”

When government and other entities don't adopt or use the latest versions of codes and standards, they lose the benefit of the latest technology, research and collective wisdom.

When policy makers decide to remove life safety and property protection provisions from codes, they have substituted politics for technical requirements.

When users fail to review and follow standards that are referenced in the codes, they aren't ensuring the right practices and products are used in the right situations. When the professionals involved in design, installation, enforcement and maintenance have not kept up to date on the latest requirements they can end up applying products improperly. When jurisdictions reduce enforcement efforts, they place their communities at risk. And when the public takes safety for granted their actions can place them in peril.

The system the public relies on for managing fire safety is broken and a single solution isn't the answer. It will take a systems approach to fix it. At NFPA, we are focused on looking at the entire system and working with everyone involved to fill the gaps.

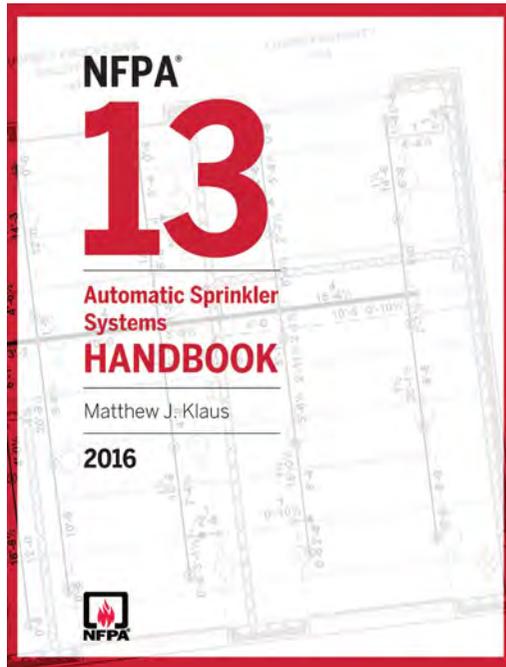
We may not be able to prevent every tragedy from occurring, but by recommitting to and promoting a full system of fire prevention, protection and education, we can help save lives and reduce loss. That is the story that should consume the news of the day.

Read the full article at nfpa.org/publicsafety.

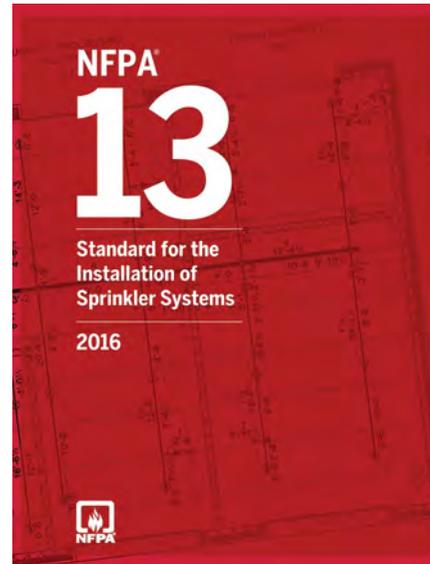
The contents of this abridged article originally appeared in the July-August 2017 issue of the NFPA Journal®.

NFPA 13

Correctly installed sprinklers can be the difference between cosmetic damage and tragedy. With *NFPA 13*, you have all the information you need to stay up to date with the latest construction materials, storage types, and other changes that are driving the increasing complexity of modern sprinkler systems.



A



B

A. 2016 NFPA 13: Automatic Sprinkler Systems Handbook

Resolve design or installation challenges with this indispensable, full-color illustrated resource by your side, complete with additional information and context.

\$171.00

CAB-13HB16



B. 2016 NFPA 13: Installation of Sprinkler Systems

Industry-wide, *NFPA 13* sets the standard for sprinkler system design, installation, and testing.

\$106.00

CAB-1316



NFPA 13 TRAINING

Sprinklers can save countless lives when installed by a well-trained professional. Add to your professional skill set with our in-depth training programs designed to give you lifesaving knowledge on issues such as identifying appropriate occupancy and commodity hazard classifications. Join us for interactive in-person classes or our online training courses.

2016 NFPA 13: Installation of Sprinkler Systems

3-Day Classroom Training

\$1,345.00

CAB-ASP2A

3-Day Classroom Training with Online Exam and Certificate

\$1,740.00

CAB-ASPC3

Online Training Series

\$324.00

CAB-OLS012

2016 NFPA 13: Storage Protection Requirements and Assessments

Online Training Series

\$144.00

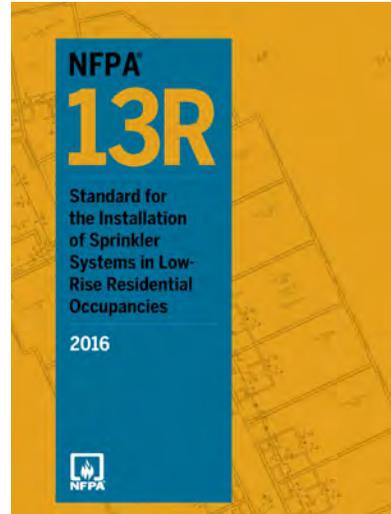
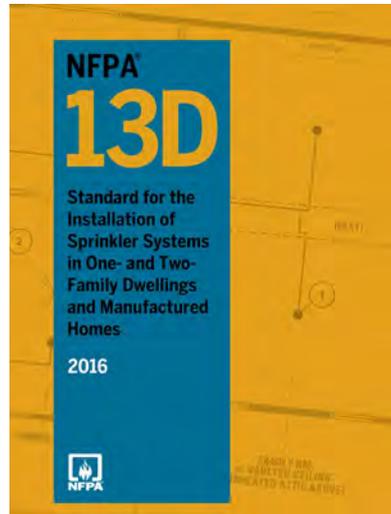
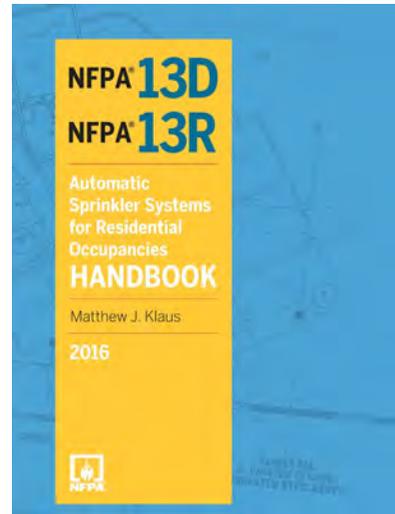
CAB-OLS017

FOR THE FULL SUITE OF NFPA 13 PRODUCTS, VISIT SHOP.NFPA.ORG/13

FOR MORE INFORMATION ON NFPA 13 TRAINING, VISIT SHOP.NFPA.ORG/13

NFPA 13D & 13R

It's a fact: homes are safer with the help of sprinklers. A modern sprinkler system, installed up to code and well-maintained, can help reduce the risk of residential fire death by 80 percent. *NFPA 13D* and *NFPA 13R* contain the information you need to reduce the number of deaths in the home.



Save 15% on sets | \$253.50 Value

2016 NFPA 13D and NFPA 13R: Automatic Sprinkler Systems for Residential Occupancies Handbook

Provide compliant, cost-effective home sprinkler systems with the full texts of *NFPA 13D* and *NFPA 13R*, all with essential commentary from the experts who develop the code.

\$154.00 CAB-13DRH16

2016 NFPA 13D: Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes

Use up-to-date criteria to help ensure proper home fire sprinkler design, installation, water supplies, equipment, and placement.

\$52.00 CAB-13D16

2016 NFPA 13R: Installation of Sprinkler Systems in Low-Rise Residential Occupancies

Get the latest provisions for installation, including water supply and system acceptance, in low-rise occupancies.

\$47.50 CAB-13R16

2016 NFPA 13D, NFPA 13R, and Automatic Sprinkler Systems for Residential Occupancies Handbook Set

Master every aspect of residential sprinkler system safety with *NFPA 13D*, *NFPA 13R*, and the Handbook that provides crucial guidance.

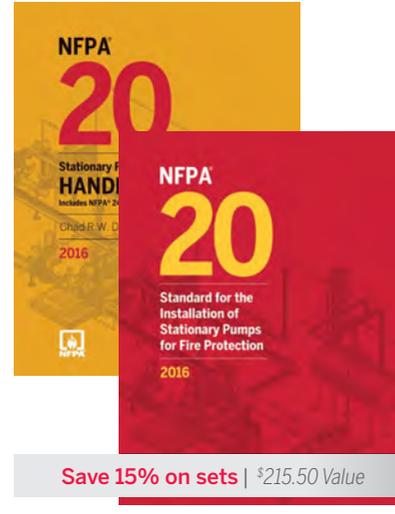
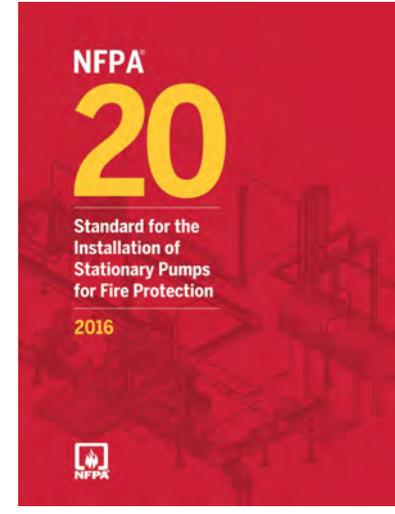
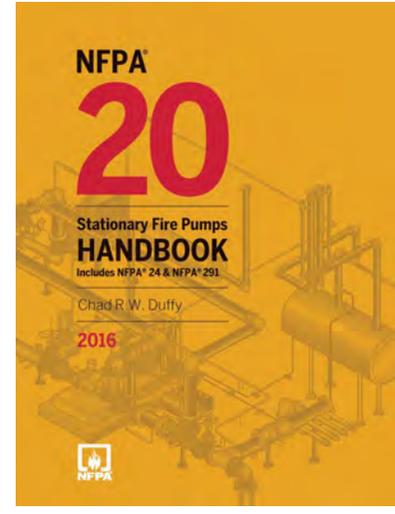
\$215.75 CAB-13DRST16



FOR THE FULL SUITE OF NFPA 13D & 13R PRODUCTS, VISIT SHOP.NFPA.ORG/13Dand13R

NFPA 20

Fire pumps are the heart of your fire protection system, and new technologies are making them more flexible than ever before. Gain the knowledge you need to choose the right pump system and help reduce costs with *NFPA 20*.



Save 15% on sets | \$215.50 Value

2016 NFPA 20: Stationary Fire Pumps Handbook

Get the latest on fire pump safety with the *NFPA 20* Handbook. Includes expert commentary that can help prevent serious accidents, along with the full texts of *NFPA 20*, *NFPA 24*, and *NFPA 291*.

\$154.00 CAB-20HB16

2016 NFPA 20: Installation of Stationary Pumps for Fire Protection

Reference and apply up-to-date provisions for fire pump design, electrical and mechanical construction, acceptance testing, and operation.

\$61.50 CAB-2016

2016 NFPA 20 and Handbook Set

Always have the fire pump safety information you need with *NFPA 20* and all the vital commentary of the *NFPA 20* Handbook.

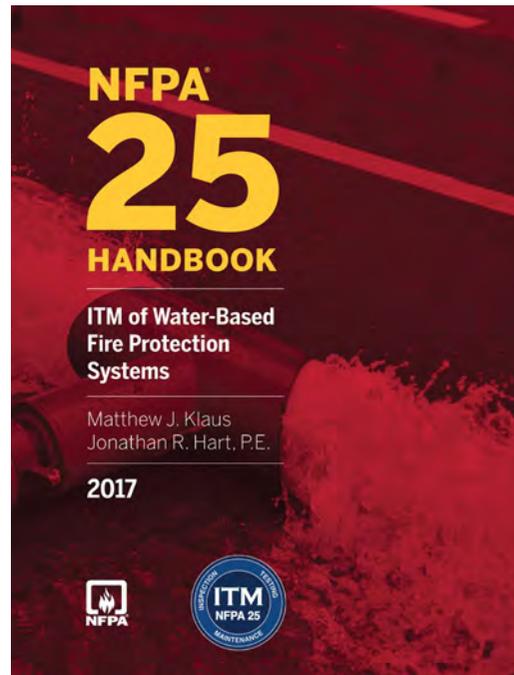
\$183.25 CAB-20SET16



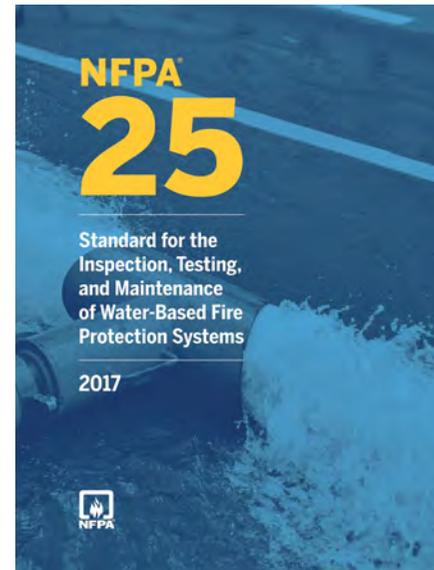
FOR THE FULL SUITE OF NFPA 20 PRODUCTS, VISIT SHOP.NFPA.ORG/20

NFPA 25

Without proper maintenance, sprinklers can't do what they are designed to do. Your ability to inspect, test, and maintain modern sprinkler systems can determine whether a sprinkler system saves lives, or doesn't. *NFPA 25* compliance will help you ensure that the system you inspect is as safe and reliable as possible.



A



B

A. 2017 NFPA 25: ITM of Water-Based Fire Protection Systems Handbook

With the additional information found in this Handbook, you help ensure ITM is handled correctly using step-by-step testing procedures.

\$154.00

CAB-25HB17



B. 2017 NFPA 25: Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems

Apply the latest provisions, new sprinkler replacement rules, and updated ITM Table in the 2017 *NFPA 25*.

\$61.50

CAB-2517



NFPA 25 TRAINING & CERTIFICATION

Proper training can make the difference between a sprinkler system that saves lives and one that doesn't. Boost your ITM knowledge with our 3-day hands-on and online training courses designed to help you keep buildings, assets, and people better protected. With training from the people who develop the code, you can build on your existing skills and be better prepared to improve safety in the workspace. Then, take the next step and earn your certification.

2017 NFPA 25: Inspection Testing and Maintenance of Water-Based Fire Protection Systems

1-Day Classroom Training

\$940.00

CAB-N25C2

Online Training Series

\$108.00

CAB-OLS019

Related Certifications

NFPA 25 training may help you prepare for this certification: Certified Sprinkler ITM Specialist (CSITMS).

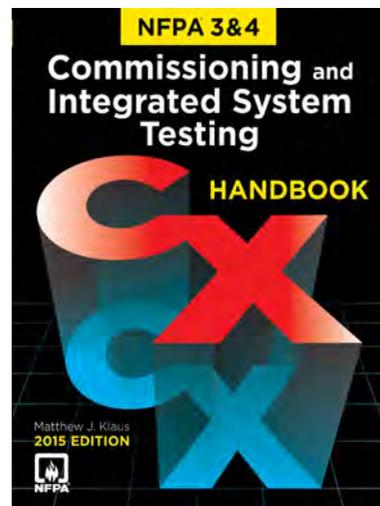


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FOR MORE INFORMATION ON NFPA 25 TRAINING & CERTIFICATION, VISIT SHOP.NFPA.ORG/25

NFPA 3 & 4

Integrated systems only work properly when they are integrated properly. *NFPA 3* and *NFPA 4* provide you with the knowledge to anticipate and avoid the oversights that could cause system failure in an emergency. These are vital tools for helping anticipate dangers and decrease risk.

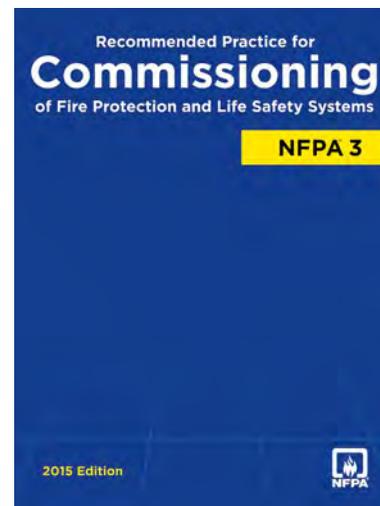


2015 NFPA 3 and NFPA 4: Commissioning and Integrated System Testing Handbook

Anyone involved with commissioning needs this Handbook filled with invaluable commentary and guidance, along with the full texts of *NFPA 3* and *NFPA 4*.

\$160.00

CAB-3HB15

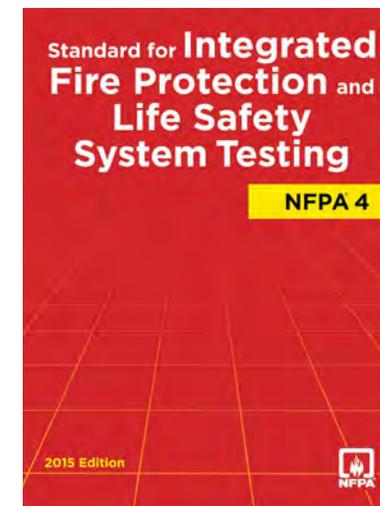


2015 NFPA 3: Recommended Practice for Commissioning of Fire Protection and Life Safety Systems

NFPA 3 outlines a comprehensive process for the commissioning of interconnected safety systems and is adaptable for all types of systems.

\$52.00

CAB-315



2015 NFPA 4: Standard for Integrated Fire Protection and Life Safety System Testing

Conduct integrated testing and documentation prior to occupancy and throughout a building's life cycle using protocols in *NFPA 4*.

\$47.50

CAB-415



FOR THE FULL SUITE OF NFPA 3 & 4 PRODUCTS, VISIT SHOP.NFPA.ORG/3AND4

KEEP THE NFPA® CODES WITHIN ARM'S REACH.

A convenient reference and permanent archive for the office that includes every NFPA code, standard, guide, and recommended practice.



2018 National Fire Codes®

This 17-volume set plus master index has 300+ codes and standards, including the 2018 edition of *NFPA 70E®: Standard for Electrical Safety in the Workplace*®, *NFPA 99: Health Care Facilities Code*, *NFPA 101®: Life Safety Code*®, *NFPA 70: National Electrical Code*®, and 70+ new and revised editions.

**Softbound, 2018 CAB-NFC18ST
\$1,580.00 | \$1,422.00 Members**



PENCIL SKYSCRAPERS, TINY HOUSES, AND THE EMERGING CHALLENGES IN BUILDING SAFETY.

Nowhere are the challenges of maintaining safety more evident than in modern building practices. From impossibly thin skyscrapers in large cities to tiny houses in rural towns, modern building practices are creating new concerns for maintaining fire and electrical safety on a number of levels.

“Pencil” skyscrapers are amazingly slender high-rise buildings popping up in skylines around the globe. While creating maximum usable square footage in a structure that sits on a small footprint, they also often have non-traditional features such as winding stairwells, ventilation systems that increase airflow in ways that can feed and spread fire, and high wind counterbalance systems involving weights exceeding one million pounds hanging at roof levels soaring over 1,000 feet—all features that present unprecedented dangers to first responders.

On the other end of the size spectrum are tiny houses and container homes. Tiny houses are growing in popularity. However, these foundationless dwellings commonly fall between the definitions of a permanent home and a mobile home, and reside in a no-man’s-land when determining which fire and safety standards they must follow. According to tiny house builder Tony Gilchriest, “It’s kind of the Wild West of building.”* And when you consider that these structures are designed with a compact, “use every inch” mentality, tiny homes often end up densely filled, making them dangerous without well-thought-out fire preparations.

Container homes offer their own unique concerns. Originally shipping vessels, these containers are now being transformed to create both single and multi-unit homes.

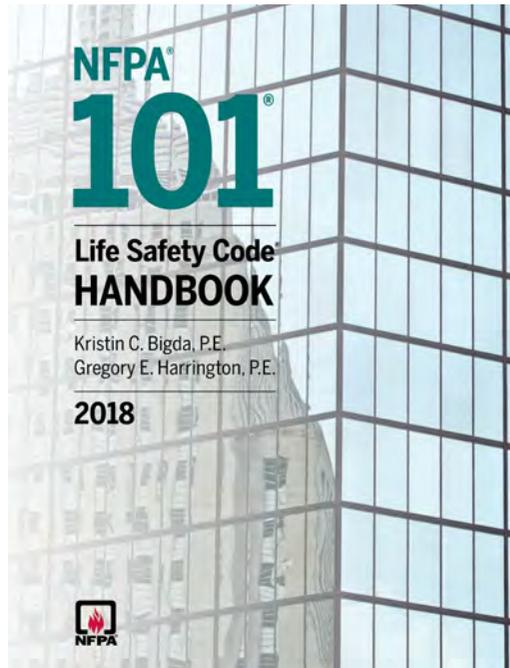
They are incredibly strong, and their steel construction would at first make them seem fire resistant. But since the interiors of these homes are typically constructed from traditional materials, a fire inside a container home can turn that strength into a dangerous weakness. Steel readily absorbs and transfers heat, exponentially increasing the temperature both inside and outside the home in the event of a fire. The strength of steel also makes it difficult for first responders to cut into to aid with smoke ventilation. Additionally, the ribbed construction of these containers creates airflow patterns that differ from those in flat-sided buildings, adding another layer of complexity for emergency responders to consider.

“According to tiny house builder Tony Gilchriest, 'It's kind of the Wild West of building.' ”

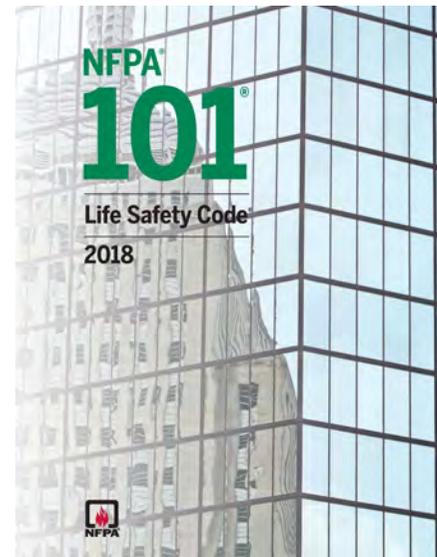
At the end of the day change is good, because without it progress would be impossible. If you want to be part of that progress, consider becoming an NFPA® member and joining in the conversation. Because at NFPA, we’re committed to embracing the ever-changing ways (and places) we live in order to make the necessary changes in our approach to protecting both.

*Beitsch, Rebecca. "Tiny houses are trendy, minimalist and often illegal." pbs.org. PBS Newshour. 6 Jul 2016.

NFPA 101® Saving lives is the primary goal of *NFPA 101*. Our up-to-date, expertly vetted information on egress, sprinklers, alarms, and more can mean the difference between occupant safety and serious loss of life. Get the code, and get to work helping to save lives.



A



B

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Life Safety Code violations can result in fatal fires. Help ensure proper application of *NFPA 101* with fully updated commentary noting changes from the 2015 edition, found only in this Handbook.

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CAB-101HB18



★ **B. NEW 2018 NFPA 101®: Life Safety Code®**

Occupant safety demands compliance with *NFPA 101* requirements for egress, alarms, sprinklers, lighting, smoke barriers, and special hazard protection. Includes new provisions for classroom door locking and integrated systems testing.

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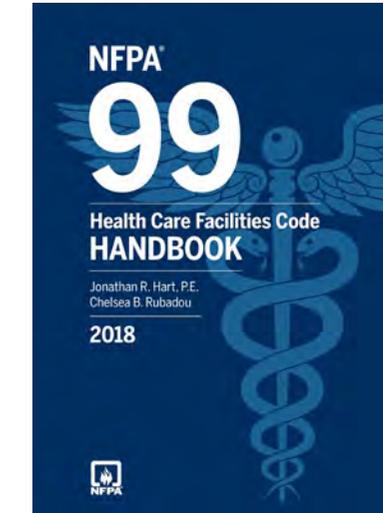


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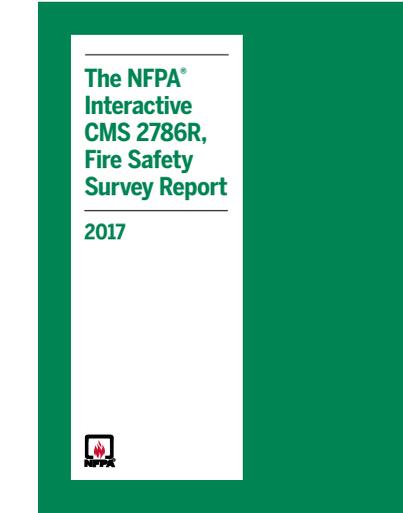


★ **NEW 2018 NFPA 99: Health Care Facilities Code Handbook**

All the knowledge you need to fully apply *NFPA 99*, this edition's new "survey preparedness" feature highlights key sections scrutinized during facility surveys and provides tips on being more fully prepared.

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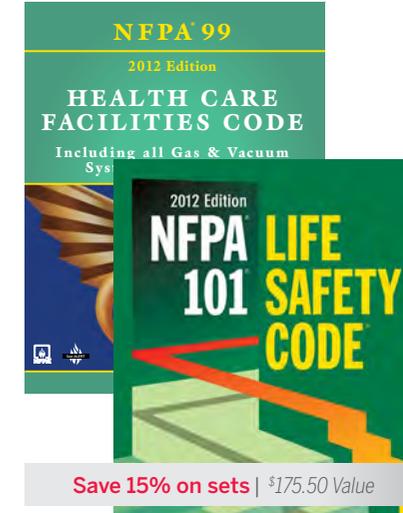


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REFRIGERANTS
ARE BAD
FOR THE PLANET.

THE MOST
ENVIRONMENTALLY
FRIENDLY
REFRIGERANTS ARE
FLAMMABLE.

Guess which ones business owners have to use?

1.6 billion new air-conditioning units will be installed by 2050* – a sizable percentage in large-scale commercial refrigeration to keep stores cool and food fresh. Imagine the implications and scope of legislation requiring that more environmentally friendly, yet flammable, refrigerants be used in these new units, as well as old unit conversions.

This is exactly what is about to happen under the direction of the Environmental Protection Agency when current hydrofluorocarbons (HFCs) will be prohibited from new retail food refrigeration systems by 2021, and from air-conditioning systems by 2024. In fact, all 27 low-climate-impact refrigerants tested by the National Institute of Standards and Technology – including hydrocarbons like propane, isobutene, and propylene – are at least slightly flammable. This has industries that rely on refrigeration scrambling to figure out how to comply with environmental regulations within the constraints of safety regulation.

U.S. retailer Target, learning that propane is 50 percent more efficient as a refrigerant than HFCs, is lead sponsor on a project being conducted by the NFPA Fire Protection Research Foundation (FPRF). The FPRF is currently working to analyze the fire hazard of propane refrigerants in commercial retail and kitchen settings.

“1.6 billion new air-conditioning units will be installed by 2050*...”

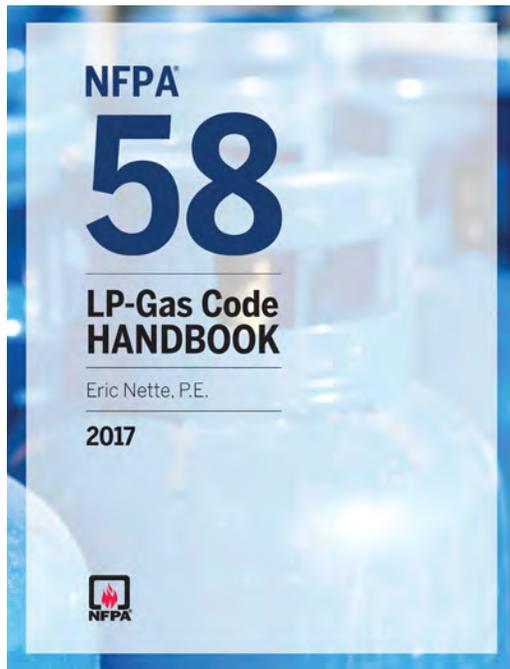
Will NFPA code be affected? NFPA code actually already addresses general fire safety and protection for the potential replacement hydrocarbon and hydrofluoroolefin refrigerants being researched. Codes we may keep an eye on, however, as research and development continue with refrigerants, are *NFPA 55: Compressed Gases and Cryogenic Fluids*, *NFPA 58: Liquefied Petroleum Gas*, and *NFPA 30: Flammable and Combustible Liquids*.

At the end of the day, there are no two ways about it: refrigerant safety legislation and changes to safety regulations are on the way. “This is coming, and it’s coming quickly, so it’s important to get this in front of the fire protection community,” says Bill Walter, engineering fellow at United Technologies. New standards and codes might need to be developed. At NFPA, we see this as one more challenge of our constantly changing and improving world. We also see the need for our engineering, fire safety and responder communities to stay on top of any changes. Equipment, training, monitoring, and chemical science must ensure that people everywhere– whatever refrigerants are ultimately used – feel safe, cool, and comfortable in every way.

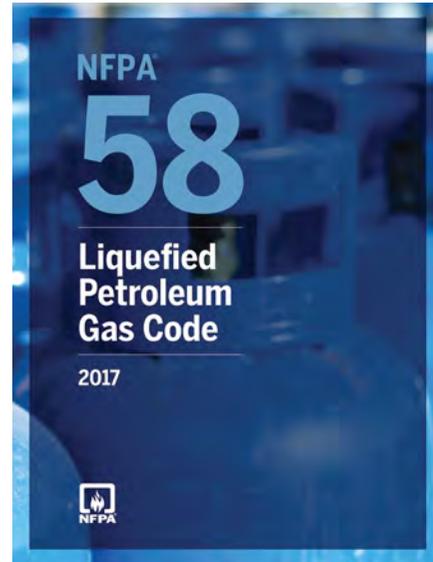
* Berkeley National Laboratory.

NFPA 58

Fuel gas helps power our everyday lives, but it can also present real dangers to people and property. Stay on top of the evolving risks, materials, and construction practices pertaining to liquefied petroleum gas with *NFPA 58*.



A



B

A. 2017 NFPA 58: LP-Gas Code Handbook

Help mitigate hazards with commentary and implementation information from leading code experts, all alongside the full 2017 *NFPA 58* text.

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CAB-58HB17



B. 2017 NFPA 58: Liquefied Petroleum Gas Code

Referenced by the U.S. DOT and enforced in most states, *NFPA 58* governs LP-gas storage, handling, transportation, and use.

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CAB-5817



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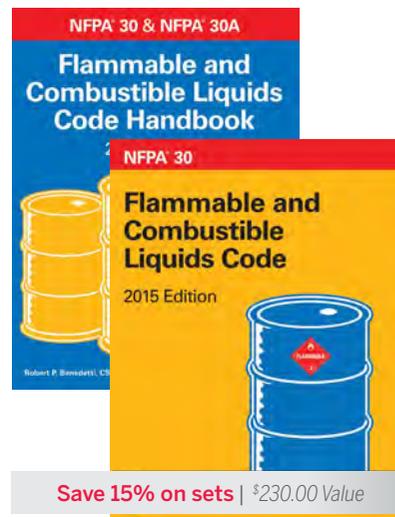
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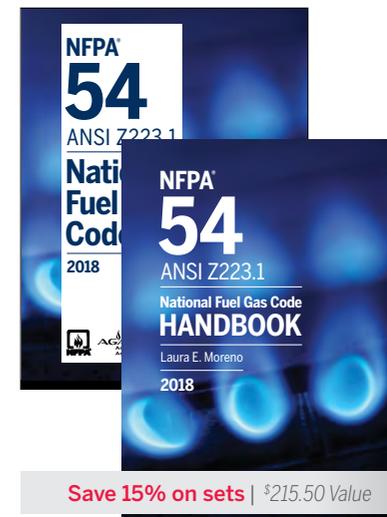
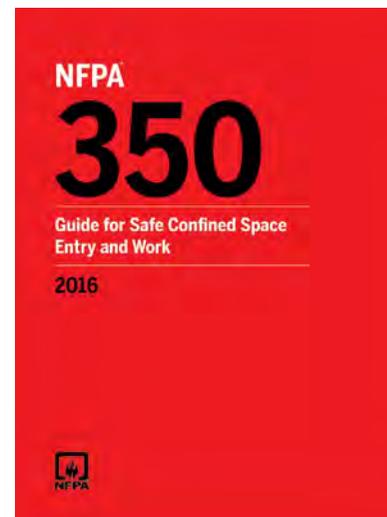
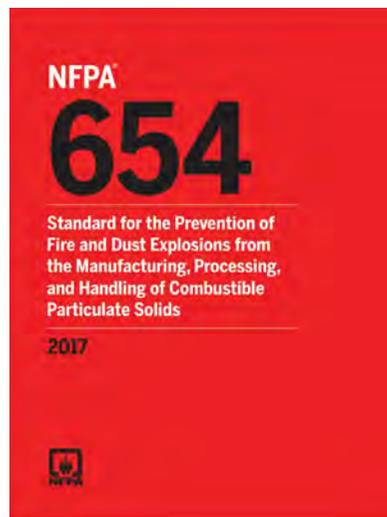
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NFPA 654 helps you identify dust hazards and helps protect lives and property. Referenced by OSHA's Combustible Dust National Emphasis Program.

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2016 NFPA 350: Guide for Safe Confined Space Entry and Work

Confined spaces represent unique dangers. This guide is intended to help protect workers who enter confined spaces for inspection or testing or to perform associated work.

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★NEW 2018 NFPA 54: National Fuel Gas Code and Handbook Set

Together, *NFPA 54* and the expert commentary found in our Handbook provide safety guidelines for the design and installation of fuel gas piping systems, including revisions to piping and venting requirements.

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NFPA 350 & NFPA 654 TRAINING

Confined spaces and dust hide dangers that can cause serious harm to people and facilities. Advance your understanding of these unique challenges with online training from NFPA and learn about the potentially lifesaving procedures contained within *NFPA 350* and *NFPA 654*. This training is designed to help you save lives, control hazards, and prevent OSHA violations.

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EMERGENCY RESPONSE



MANAGING THE UNIMAGINABLE.

How a universal standard protocol can help first responders work even better.

"I was outside the hospital, putting the stretcher in the ambulance. I thought I heard fireworks. That's when Carlos came running out, yelling at me. 'There's a shooting at the Pulse!'" (Joshua Granada, firefighter/paramedic, Station 5, Orlando, FL)*

The shooting took place just 600 yards from the Emergency Department entrance of Orlando Regional Medical Center. "Other paramedics were already there in the trenches doing the incredibly difficult task of triage. What they didn't have was a way of getting victims to the hospital because, at that time, we were the only rescue truck going back and forth. We heard secondhand that the shooter was claiming there were explosives everywhere. So law enforcement had to pull everybody away for safety." (Joshua Granada)*

We all have pictures of these tragedies in our minds – Paris, London, San Bernardino, Orlando – to name a few. In each of these active shooter/hostile situations, in often chaotic environments, the actions of first responders like Joshua Granada and his partner Carlos Tavarez in Orlando have been nothing short of heroic. That said, even more can be done to ensure that first responders know who's in charge, where to stage, and how best to work together – for their own safety, and for the safety of victims.

Organizations at federal, state, and local levels have each published guidance for active shooter situations, and therein lies the challenge. There is not a globally nationally recognized best practice for mass shootings, hostage situations, and mass fatalities.

“The Pulse nightclub shooting in Orlando was meant to weaken us. Instead, it strengthened us. We are developing NFPA 3000.”

- Fire Chief Otto Drozd III, Orlando, FL

At the request of Fire Chief Otto Drozd III, Orlando, FL, NFPA is helping facilitate the development of a consensus document laying out one consistent response protocol and consistent training and operational objectives that public safety organizations around the world can use.

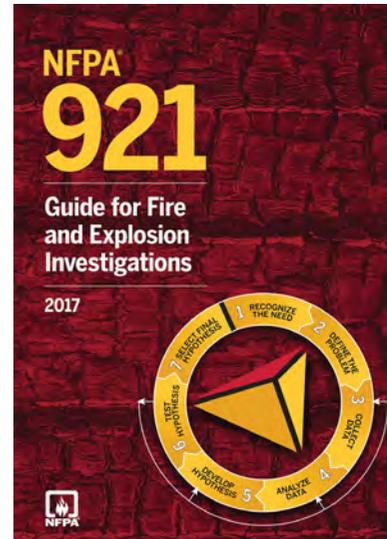
“Our world is changing. It is critical that we do whatever it takes to protect it together. We need to join forces and share the collective wisdom to build a framework for prevention, response and overall resiliency in the face of terror.” (Ken Willette, NFPA Fire Services Segment Director)

It is tragic that we must constantly deal with tragedy in our world, but it is our mission at NFPA to limit loss of life and property. The imperative reason for working together to make the world safer is best expressed by Chief Drozd. “The tragedy of June 12, 2016, called us to action. Our experience will help shape our nation's and the world's responses to these types of events for a simple reason: Ut Vivant Alii—so that others may live.” (Otto Drozd III, Orlando, FL)

*Shaw, Kerry. "We Were the First Paramedics at Pulse Nightclub..." thetrace.org. The Trace. 7 June 2017.

NFPA 921 & 1500

Fire and explosion investigations help us better predict and prevent disaster. With *NFPA 921* you'll make surer conclusions and deliver more accurate testimony. And while we're making the world safer, we can't forget the importance of first responder health and wellness. The New *NFPA 1500* sets the standard for the health and safety programs that helps keep first responders responding.



2017 NFPA 921: Guide for Fire and Explosion Investigations

The premier source for helping you render scientifically based opinions on origin and cause investigations, *NFPA 921* has been revised to reflect current practices and research.

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★ NEW 2018 NFPA 1500: Standard on Fire Department Occupational Safety, Health, and Wellness Programs

A comprehensive explanation of the requirements for occupational safety and health programs for fire, rescue, medical, and other emergency services.

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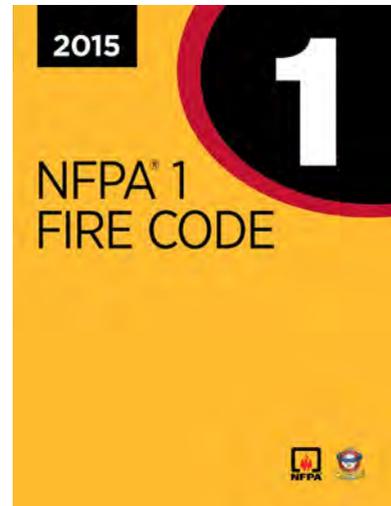
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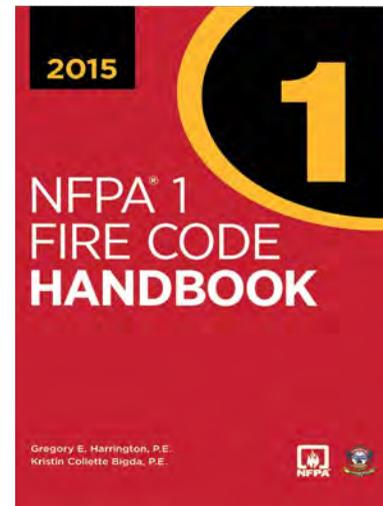


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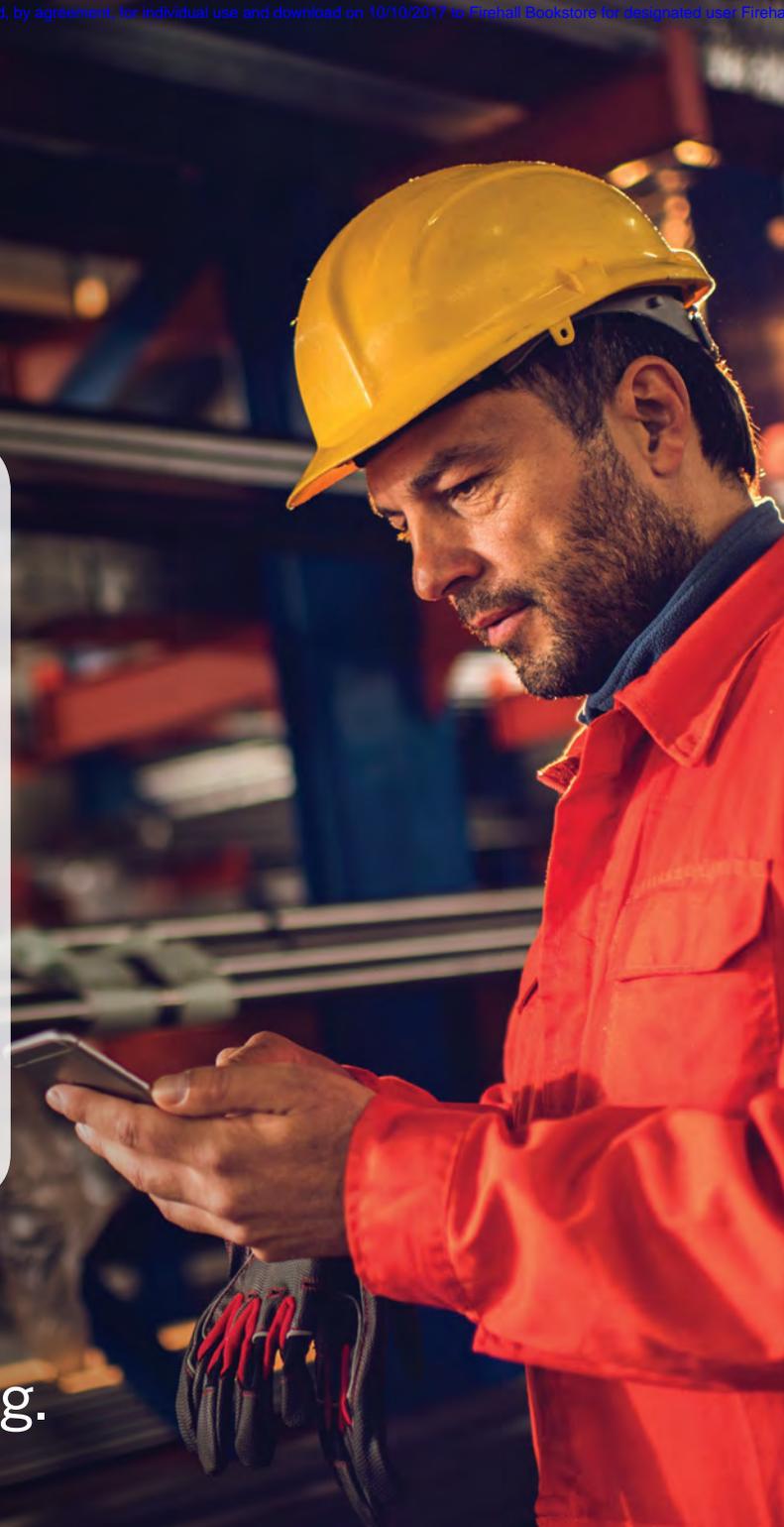


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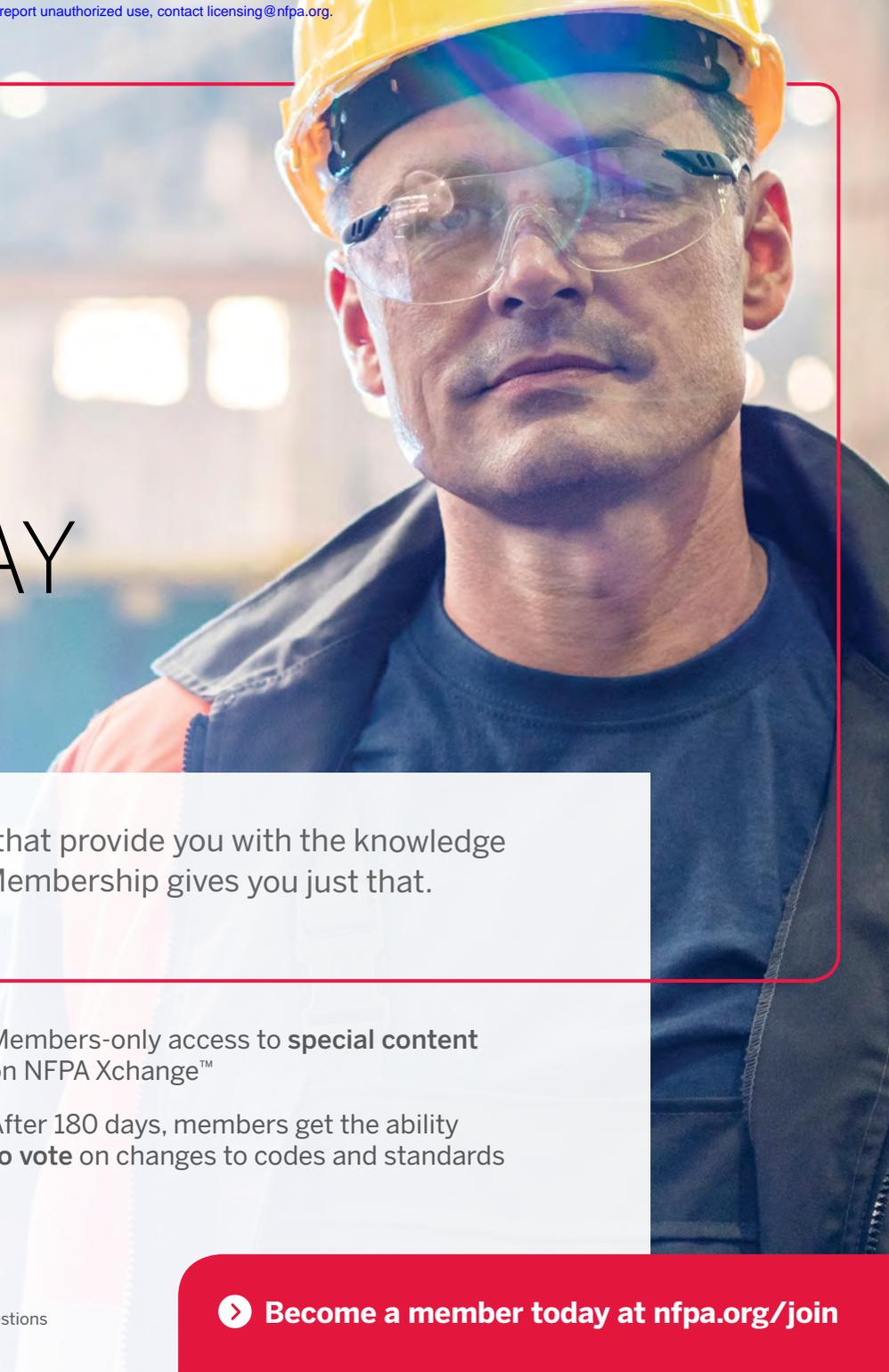
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