Northwestern

Spotlight on Safety

Volume 6, Issue 10 October 2022

Fire Prevention

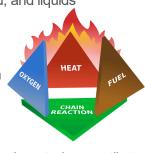
October 9-15 is National Fire Prevention Week, and a great time to discuss how to prevent fires. Fires can occur anywhere at any time, and they are one of the most dangerous workplace hazards. The Occupational Safety and Health Administration (OSHA) reports an average of more than 200 workplace fires per day, and an average of more than 5,000 people injured by workplace fires annually. Northwestern's Fire Prevention Program provides guidance on identifying and reducing potential fire hazards on campus to ensure your safety, the safety of your colleagues and community, and the protection of university property.

To prevent fires, you should first understand what is required for a fire to ignite and stay burning. The following properties are needed to start a fire:

Oxygen, which is plentiful in most work areas **Fuel**, such as paper, wood, and liquids

Heat, which releases vapor from the fuel and causes ignition

Fire sustains combustion using oxygen, fuel, and heat through a **chain** reaction



Once ignited, a fire will continue to burn until at least one of the above components is removed, either naturally or by extinguishment (e.g., fire extinguisher or sprinkler system).

Tips for Success When Talking to Your Team

Preparation is Key: Keep the topic relevant. Work with your team to review fire safety in your work area and discuss how your team will respond to fire emergencies.

Stay Positive: Keep the focus on what can be done to create a safe workplace instead of focusing on what has gone wrong in the past.

Share a Story, Ask for a Story: Storytelling is a powerful method to convey information. Stories from your employees make the topic even more relatable.

Fire safety in the workplace

Fires can originate from many sources in the workplace and can spread rapidly in the right conditions. Here are some examples of sources of fires in the workplace and how to prevent them:

- Welding, cutting, and brazing (e.g., hot work) tasks produce flames or sources of ignition and account for 34% of workplace fires. Always adhere to Northwestern's Hot Work Program, which includes requirements such as obtaining a permit, inspecting the work area for hazards, and utilizing a fire watch.
- Overloaded or damaged electrical equipment is responsible for 22% of workplace fires. Ensure equipment, cords, and power strips are in good condition and not overloaded.
- The accumulation of combustible materials provides fuel for a fire and can accelerate the spread of fire. Practice good housekeeping by removing trash from work areas often and never blocking fire protection or extinguishment equipment.
- Shop rags soaked with oil or paint can self-ignite; used shop rags must be stored in air-tight, self-closing metal containers.
- Flammable liquids (e.g., aerosols and paint thinners) are obvious fire hazards; ensure flammable liquids are stored in approved storage cabinets that should never be blocked by equipment or materials.

Learn more: Complete <u>Fire Extinguisher</u>, <u>Hot Work Permit</u>, and <u>Flammable and Combustible Liquids</u> training. **Report all injuries:** Online or call (847) 491-5582.

Safety at Home

According to the National Fire Protection Association (NFPA), 26% of <u>reported fires</u> occur in homes. Below are some tips to keep you and your family safe from a fire:

- ✓ Cooking appliances are responsible for 48% of home fires; Do not leave cooking equipment unattended when in use.
- ✓ Keep portable heaters and candles away from combustible materials such as bedding, curtains, and furniture. Never leave candles and portable heaters unattended, and always blow out candles and turn off heaters before going to sleep.
- ✓ Test smoke detectors monthly and replace batteries annually and when the batteries are low. Replace smoke detectors that are more than 10 years old.
- ✓ Keep a fire extinguisher at home in an accessible location (e.g., kitchen) and know how to use it; replace fire extinguishers after 12 years or after use.

For Additional Information

Contact Environmental Health & Safety at ehs@northwestern.edu