

Lesson Review: Fire Prevention

The fire tetrahedron is a four-sided geometric representation of the elements of fire that illustrates the connection between fuel, heat and oxygen through a chemical reaction. Fire is not a state of matter. Fire is a chemical reaction that is sustained only as long as all three necessary elements are present.

Fire Prevention requires Employers to:

- Provide adequate fire protection equipment and alert systems that comply with OSHA regulations.
- Have firefighting equipment conspicuously located and inspected on a regular basis.
- Have fire extinguishers placed on construction sites not more than 100 ft. from any given point. There should be at least one extinguisher present for every 3,000 sq. ft. of floor space.
- Have an established fire alarm system, such as an overhead sprinkler system.
- Be conscious of potential ignition hazards from electrical wiring, exhaust on internal combustion engines or smoking.

When storing hazardous material outside:

- The area must be equipped with proper firefighting equipment.
- The area should be kept clear and free of debris.

When storing hazardous material inside a building:

- Incompatible materials must be kept separate.
- Proper clearance must be allowed for ceilings, doors and pathways.

Remember: When using material and equipment in the workplace that pose potential fire hazards, such as flammable and combustible liquids, LP-Gas and temporary heating devices, care must be taken in regards to safe use and storage.



When equipment is used improperly or safety regulations are not adhered to, the risk of a fire hazard greatly increases.