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# OBJECTIVES



*Understanding the dangers of Hydrogen Cyanide and Carbon Monoxide, and the possibilities of exposure.*

Learn about the conditions, temperature, ventilation, and oxygen levels as well as asphyxiates and deadly gasses like carbon monoxide and hydrogen cyanide.



**This class meets:  
NFPA 1001  
1500 and  
1584**

## Objectives of the Class

- Understand the unseen risks that are present in smoke.
- Learn about the more prevalent byproducts of combustion involved in a structure fire, specifically hydrogen cyanide and carbon monoxide.
- Understand the effects of fire gases on the human body.
- Become informed of possible monitoring and treatment techniques that have been developed or tested.
- Learn about what to do in the event of a possible exposure to a toxic byproduct.
- Encourage departments to follow/implement Standard Operating Procedures & Guidelines (SOPs/SOGs) to help prevent exposures.
- Learn about atmospheric monitors and best practices.



### Asphyxiates

We'll show the various ways asphyxiates interfere with normal breathing.

### Hydrogen Cyanide (HC)

Learn which materials that burn hotter and faster than conventional materials, as well as the body's reaction to exposure in the short and long term.

### Carbon Monoxide (CO)

Find out how CO exerts its toxic effects and how it becomes fatal. Learn which concentrations begin to manifest symptoms and death.

