

Street Smart Chemistry - 80 Hour

This enhanced 80-hour class is designed to train Emergency Responders and other people who need to know the chemistry of hazardous materials. It addresses the need to know how to respond safely to incidents involving toxic and hazardous materials from a chemical perspective. It covers general and organic chemistry as well as such topics as toxicology, environmental monitoring, weapons of mass destruction, chemicals as weapons, explosives, incendiaries, types of clandestine laboratories, uses for chemical glassware and the chemistry of fire. This class has multiple hands on sessions that will demonstrate uses of chemistry. No prior knowledge of chemistry is assumed

This class covers the following concepts:

1. Atoms, elements and the periodic table
2. Forms and changes of matter
3. Formulas and bonding of inorganic molecules
4. Inorganic chemical formulas and nomenclature
5. Chemistry of the elements
6. Corrosive materials
7. Oxidizing agents
8. Water and air reactive materials
9. Basic and Advanced Organic chemistry
10. Waste streams
11. Toxicity
12. Air monitoring
13. Chemistry of fire
14. Pesticides
15. DOT chemistry
16. Biological agents
17. Nuclear agents
18. Incendiary agents
19. Chemical agents
20. Explosive agents
21. Clandestine Laboratories
22. Laboratory Glassware and its uses

