

## **Anhydrous Ammonia Safety Training**

This Anhydrous Ammonia training course teaches your students about the characteristics and uses of ammonia as well as the hazards associated with this hazardous gas. Your students will learn proper storage techniques, safe work practices as well as proper emergency response procedures. Anhydrous ammonia, NH<sub>3</sub>, is commonly used in both industry and agriculture. This gas emits vapors that are suffocating and can lead to serious health problems, even death. This Ammonia Safety Training course outlines an active program of safety and inspection to prevent accidents in the workplace. It features exciting footage, instructive animations, and valuable information about the illegal use of anhydrous ammonia in clandestine drug labs. You will receive a certificate upon completion of this [employee safety training](#) course.

- Rich multimedia presentation with interactions and quiz
- Print certificate and wallet card
- You have 60 days to complete the course
- CEUs awarded

### **Audience**

For all workers who work around Anhydrous Ammonia, and emergency response workers who may be involved in an incident involving Anhydrous Ammonia.

### **Topics**

The course presents the following topical areas:

- Characteristics & Uses
  - Properties
  - Vapors
  - Effects of heat
  - Principal uses
  - Illicit use
- Hazards
  - Reactivity hazard
  - Health hazard
  - Flammability hazard
  - Confined space hazards/case study
- Workplace Safety
  - Storage
  - Safety equipment for workers
  - Federal regulations
  - Safe transfer & transport

- Emergency Response
  - Recognizing tanks
  - Responder safety
  - Mitigation
  - Fire situations
  - Managing victims

### **Intended Learning Outcomes**

Upon successful completion of this course you will be better prepared to:

- Describe the physical characteristics and usefulness of anhydrous ammonia.
  - Describe the effects of ammonia vapors.
  - Explain what happens to liquid ammonia when it is heated.
  - List ways that ammonia is used in industry.
  - Describe how anhydrous ammonia is used illegally.
- Avoid injury by anhydrous ammonia.
  - Describe the reactivity hazard of anhydrous ammonia.
  - Describe what happens when NH<sub>3</sub> contacts human tissue.
  - Describe the flammability hazard associated with NH<sub>3</sub>.
  - Explain why confined spaces may exacerbate the hazards of NH<sub>3</sub>.
- Take proper safety precautions when working with anhydrous ammonia.
  - Describe how to properly store anhydrous ammonia.
  - Recall the necessary safety equipment for using anhydrous ammonia.
  - List the federal requirements that apply to anhydrous ammonia.
  - Explain safety procedures for transferring and transporting NH<sub>3</sub>.
- Respond safely to incidents involving anhydrous ammonia.
  - Describe how to recognize tanks used to store or transport NH<sub>3</sub>.
  - Explain safety measures to protect personnel entering the hot zone.
  - Describe some basic mitigation activities for NH<sub>3</sub> leaks.
  - Explain the priorities in fire incidents involving NH<sub>3</sub>.
  - Describe how to help victims at an anhydrous ammonia incident scene.