

# Program of Instruction

## Course Syllabus

**Course Title:** Anhydrous Ammonia Emergencies

**Course Duration:** 4 hours

**Program:** Agricultural Rescue Program

**Course Prerequisites:** None

**Course Description:** The scope of this course is to educate first responders in anhydrous ammonia characteristics and the environmental concerns, associated health effects, patient handling and treatment options, and public safety during incidents involving anhydrous ammonia releases. Instructors discuss responder safety and protection, including personal protection equipment (PPE) concerns and isolation or protect-in-place options. The course also covers risk-benefit analysis, incident command responsibilities, and troubleshooting real life incidents from the initial responder role.

**Course Requirements:** 100% attendance of this 4 hour course

### **Course Policies:**

**Safety Policy:** Students shall understand and follow all instructions pertaining to operational safety, as stated by instructors or as written in course materials. Instructors and students shall be mindful of safety at all times. Conduct judged to be unsafe shall be grounds for dismissal from the course.

**Academic Integrity Policy:** IFSI has the responsibility for maintaining academic integrity so as to protect the quality of the education provided through its courses, and to protect those who depend upon our integrity. It is the responsibility of the student to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids others in such infractions. Any violation of the code of conduct is grounds for immediate dismissal from the course.

**Grading Policy:** Decisions regarding certificates of course completion shall be made solely by the lead instructor of the course.

## **Course Content:**

Module: 1

Title: Introduction

Terminal Learning Objectives: At the conclusion of this module, the student will explain the reasons the first responder needs an understanding of anhydrous ammonia.

Module: 2

Title: Recognition and Identification

Terminal Learning Objectives: At the conclusion of this module, the student will identify the physical and chemical characteristics of anhydrous ammonia.

Module: 3

Title: Health Hazards

Terminal Learning Objectives: At the conclusion of this module, the student will explain the health hazards associated with anhydrous ammonia to properly protect themselves at incidents involving anhydrous ammonia.

Module: 4

Title: Emergency Response

Terminal Learning Objectives: At the conclusion of this module, the student will demonstrate the skills necessary to operate as a first responder at incidents involving anhydrous ammonia.

## **Reference List:**

National Fire Protection Association *Standard 472 Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents*, 2008.

National Fire Protection Association *Standard 1001 Fire Fighter Professional Qualifications*, 2013.

U.S. Department of Labor, *Code of Federal Regulations: Labor 29 CFR 1910.134*. Washington, D.C., Office of the Federal Register, National Archives and Records Administration, 2006.

## Course Schedule

<u>Event</u>	<u>Duration</u>
Module 1 - Introduction	1 hour
Module 2 - Recognition and Identification	1 hour
Break –	
Module 3 - Health Hazards	1 hour
Module 4 - Emergency Response	1 hour