

# Program of Instruction

## Course Syllabus

**Course Title:** Agriculture Rescue Techniques

**Course Duration:** 8 hours

**Program:** Agriculture

**Course Prerequisites:** None

**Course Description:** First Responders and rescue personnel will study principles and guidelines for safe response to agriculture related incidents. Subject matter covered includes tractor rollovers, grain auger entrapments, farm machinery entrapments, emergencies related electrical malfunctions, and chemical exposure incidents. Confined space and how it relates to incidents that involve manure pits and grain bins will be covered as well. Students will learn extrication methods, machinery stabilization, lock out/tag out of hazardous systems, patient assessment, and packaging. Pre-Planning along with site visits will be encouraged with local farmers, agriculture machinery dealerships, repair shops, and commercial chemical dealerships.

### **Course Requirements and/or Recommendations:**

#### Summary of Directions

Pre-Course Work: None

Course Work: Attend 100% of class and successfully complete all practical exercises.

Post-Course Work: None

### **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.

**American Disabilities Act:** As guaranteed in the Vocational Rehabilitation Act and in the American Disabilities Act, if any student needs special accommodations they are to notify their instructor and provide documentation as soon as possible so arrangements can be made to provide for the student's needs.

## **Course Content:**

### Module: 1

Title: Introduction

Terminal Learning Objective: At the conclusion of this module, the student will explain how farm related accidents occur.

### Module: 2

Title: Preplanning

Terminal Learning Objective: At the conclusion of this module the students will identify the common hazards, and the different types of structures found on the farm, as well as preplanning and mutual aid considerations.

### Module: 3

Title: Confined Space

Terminal Learning Objective: At the conclusion of this module the student will identify the types and locations of confined spaces that are common in agricultural operations, as well as, hazards associated with them.

### Module: 4

Title: Farm Machinery

Terminal Learning Objective: At the conclusion of this module, the student will identify the hazards associated with the most common types of farm machinery.

### Module: 5

Title: Common Farm Chemicals & Fuels

Terminal Learning Objective: At the conclusion of this module, the student will identify the hazards associated with the numerous types of farm chemicals and fuels.

### Module: 6

Title: Farm Animals

Terminal Learning Objective: At the conclusion of this module, the student will identify the hazards associated with common farm animals and the buildings that they are housed in.

## Module 7

Title: Incident Command

Terminal Learning objective: At the conclusion of this module, the student will explain the incident command system as utilized for emergencies in the agricultural setting.

## Module 8

Title: Stabilization

Terminal Learning Objective: At the conclusion of this module, the student will describe the process for ensuring the stability of machinery during agriculture rescue incidents.

## Module 9

Title: Extrication

Terminal Learning Objective: At the conclusion of this module, the student will demonstrate safe rescue techniques in the agricultural setting equivalent to their current training level.

## Module 10

Title: Patient Stabilization

Terminal Learning Objective: At the conclusion of this module, the student will explain the critical factors that apply to patient stabilization.

## Reference List:

Agriculture Operations (2011) Occupational Safety & Health Administration.  
<https://www.osha.gov/dsg/topics/agriculturaloperations/>

National Fire Protection Association Standard 1001: Firefighter Professional Qualifications, 2013 Ed.

National Fire Protection Association Standard 1006: Technical Rescuer Professional Qualifications, 2013 Ed.

National Fire Protection Association Standard 1670: Operations and Training for Technical Search and Rescue Incidents, 2014 Ed.

National Incident Management System, ICS-100 Training Program. (2012).  
Federal Emergency Management Agency. [www.fema.gov/training-0#item5](http://www.fema.gov/training-0#item5)

Occupational Safety and Health Administration, Code of Federal Regulations, 1910.146: Permit-Required Confined Spaces

Vehicle Machinery Operations, Version 1, 2014, Illinois Fire Service Institute, Champaign, IL

# Course Schedule

## DAY ONE

| <u>Event</u>                             | <u>Duration</u> |
|------------------------------------------|-----------------|
| Module 1 – Introduction                  | 10 minutes      |
| Module 2 – Pre-Planning                  | 20 minutes      |
| Module 3 – Confined Space                | 30 minutes      |
| Module 4 – Farm Machinery                | 45 minutes      |
| Module 5 – Common Farm Chemicals & Fuels | 15 minutes      |
| Module 6 – Farm Animals                  | 20 minutes      |
| Module 7 – Incident Command              | 20 minutes      |
| Module 8 – Stabilization                 | 20 minutes      |
| Module 9 – Extrication                   | 30 minutes      |
| Module 10 – Patient Stabilization        | 30 minutes      |

### **Lunch**

|                                |         |
|--------------------------------|---------|
| Drill 9.4 – Auger Entanglement | 1 hours |
| Drill 9.5 – Tractor Rollover   | 3 hours |

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