Course Title: Grain Bin Rescue Technician

Course Duration: 8 hours

Program: Agricultural Rescue

Course Prerequisites: Students must be a member of a recognized fire department, fire brigade, or technical rescue team. A copy of the documentation verifying completion of Technical Rescue Awareness, Rope Operations, and Confined Space Operations classes is required.

Course Description: The scope of this course is to educate students about grain storage facility types, their construction, and operating features. OSHA regulations, physical-environmental hazards and potential rescue resources are identified to ensure the response falls within the requirements minimizing fire department civil or criminal liability. Scene management and safety are discussed in conjunction with locating, securing, packaging, and moving the victim. Improvised mechanical advantage systems, high point anchors, and retrieval systems will be demonstrated. The class also covers safe patient assessment, stabilization, protection and packaging, plus removal as a part of rescue simulations. Various cutting tools are used in a simulated rescue to assist in the removal of grain from the system. Upon completion of this class the student will possess the ability to function as a member of a rescue team conducting rescue operations at a grain storage facility.

Course Requirements and/or Recommendations: These can be divided into three categories: those completed prior to arriving in class (Pre-Course Work), those completed during class, such as homework assignments and quizzes (Course Work), and requirements completed after class but prior to receiving a certificate of completion (Post-Course Work).

Summary of Directions
Pre-Course Work: None
Course Work: None
Post-Course Work: None
Course Policies:

**Attendance Policy:** IFSI requires students to attend (100%) or make up all course content that leads to certification. Students are expected to attend on time and to remain in class for the duration of the course. **Students MUST COMPLETE** all portions of a certification course, both classroom and practical, to be eligible to receive their certification.

If a student misses any portion of class with an accumulated absence of 20% or less of scheduled class time, it will be the student’s responsibility to arrange the make-up of the missed course content with the instructor(s) or program manager. The student must make up the specific course content that s/he missed, not just the hours. Make-ups are limited to 20% of scheduled class time. Make-ups must be documented on the class roster. If a student’s absence is greater than 20% refer to “True Emergences” section of the IFSI Examination Policy.

**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. If arrangements cannot be made at the class site, the student will test at an alternative time and place where the special accommodations can be made.
Course Content:

Module: 1
Title: Introduction
Terminal Learning Objective: At the conclusion of this module the student will explain the reasons that grain bin rescues require specialized training and techniques.

Module: 2
Title: Grain Bin Rescue & the Law
Terminal Learning Objective: At the conclusion of this module the student will explain how OSHA regulations and other standards impact grain bin rescue activities.

Module: 3
Title: Grain Handling & Storage Facility Construction
Terminal Learning Objective: At the conclusion of this module the student will identify the types of grain handling and storage facilities, as well as, the possible rescue challenges presented with each type.

Module: 4
Title: Hazard Recognition
Terminal Learning Objective: At the conclusion of this module the student will explain the physical and environmental hazards encountered by both victims and rescuers during a grain bin rescue operation and identify the proper techniques to properly protect them at a rescue incident involving a grain storage facility.

Module: 5
Title: Types of Entrapment
Terminal Learning Objective: At the conclusion of this module the student will explain the three types of grain entrapment in order to identify the appropriate rescue techniques to use in each situation.

Module: 6
Title: Size-Up
Terminal Learning Objective: At the conclusion of this module the student will explain the three step process to size up a rescue incident at a grain storage facility.

Module: 7
Title: Table Tops
Terminal Learning Objectives: At the conclusion of this module the student will list the considerations for a rescue team, given a grain bin rescue scenario.
Module: 8
Title: Rescue Techniques

Terminal Learning Objectives: At the conclusion of this module the student will demonstrate safe rescue techniques equivalent to their current training level.

Reference List:


## Course Schedule

<table>
<thead>
<tr>
<th>Event</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Module 1 – Introduction</td>
<td>30 minutes</td>
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<tr>
<td>Module 2 – Grain Bin Rescue and the Law</td>
<td>30 minutes</td>
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<tr>
<td>Module 3 – Grain Handling &amp; Storage Facility Construction</td>
<td>30 minutes</td>
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<tr>
<td>Module 4 – Hazard Recognition</td>
<td>30 minutes</td>
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<tr>
<td>Module 5 – Types of Entrapment</td>
<td>30 minutes</td>
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<tr>
<td>Module 6 – Size Up</td>
<td>30 minutes</td>
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<tr>
<td>Module 7 – Table Tops</td>
<td>1 hour</td>
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<tr>
<td>Lunch</td>
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<tr>
<td>Module 8 – Rescue Techniques (Classroom)</td>
<td>30 minutes</td>
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<tr>
<td>Drill 8.20 – Making the “V” Cut</td>
<td>30 minutes</td>
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<tr>
<td>Drill 8.21 – Basic Knots</td>
<td>15 minutes</td>
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<tr>
<td>Drill 8.22 – Patient Packaging (Hasty Harness)</td>
<td>15 minutes</td>
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<tr>
<td>Drill 8.23 – Anchors – Pickets</td>
<td>30 minutes</td>
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<tr>
<td>Drill 8.24 – Ladder Jib for Grain Bin Rescue</td>
<td>30 minutes</td>
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<tr>
<td>Drill 8.25 – Grain Bin Rescue Tube Placement</td>
<td>30 minutes</td>
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<tr>
<td>Drill 8.26 – Partially Submerged Victim</td>
<td>30 minutes</td>
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<tr>
<td>Drill 8.27 – Completely Submerged Victim</td>
<td>30 minutes</td>
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