

TRAINING OPTIONS FOR REGIONAL EMERGENCY RESPONSE TEAMS

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Regional Response Teams

- Part emergency responder part industry
- Issues
 - Liability
 - Of fire company
 - Of industry workplace
 - Of county—mutual aid agreements
 - Teamwork
 - Training
 - Responders have (should have) strict SOP's
 - Actions are on the chief's shoulder
- Who CERTIFIES Teams?

Team concepts in PA

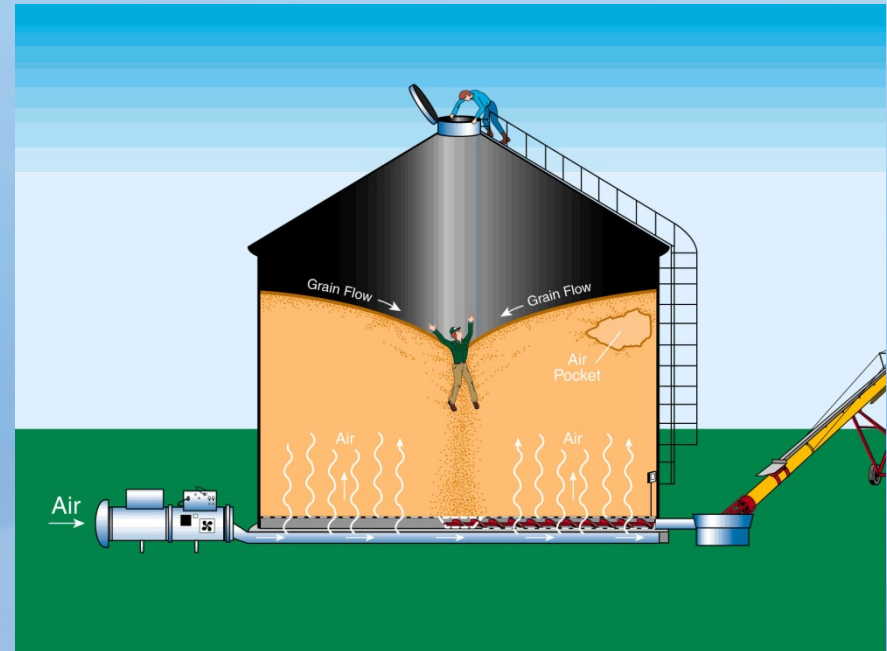
- Specially trained in ag rescue
 - At what level?
- **Animal Response Teams**
- Farm Machinery Experts
- Silo Fire Teams
- Political issues
 - Under who's jurisdiction?
 - County chiefs association
 - EMA
 - Liability?
- Logistics issues
 - ICS **MUST** be followed
 - Play nice together before/during/after

Rescue????

- To free (who/what?) from danger
- Assumes that there is danger to someone/something
- Assumes that life will be better after some action by “rescue” people
- What is best for the person (patient/victim) in danger
 - Safety 1st
 - Medically

Rescue actions

- Airway?
- Breathing?
- Circulation?
- To set free from danger?
- Then what?
- What is really going on with this person?

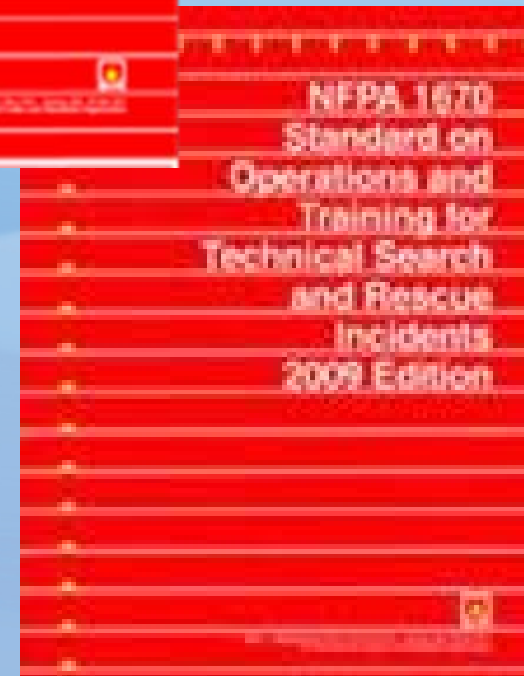


How do you train rescuers?



Emergency Responders Guidelines to follow

- **IN TRANSITION**
- **OSHA 1910.146**
- NFPA 1006-Consensus standard
- NFPA 1670-Consensus standard
- NFPA uses ANSI methodologies



Awareness level training

- Recognize confined space hazards
- Initiate contact
- Perform non entry retrieval/stabilization
 - Lower life line
 - Ventilation
 - Lock out power sources
- Site control and scene management
- Low cost investment-training

Awareness level training

- Comprehension of:
 - Bin use and construction
 - Hazards of flowing grain
 - SOP's for grain entrapment rescue/recovery
 - OSHA & NFPA
- Need
 - Knowledgeable instructor & basic props
 - Can be accomplished in 1 day or less



Operations level training

- Atmosphere monitoring
- Uncomplicated entry rescues
 - Clear sight of victim, no obstructions
 - Space is relatively clear and unobstructed
 - Rescuers can easily enter/exit
 - All hazards can be controlled
 - Cofferdam
- Proficient in simple rope lowering/raising systems
- Requires training & equipment
 - Proficiency?

Operations level training

- Pre-requisites
 - Awareness
 - Basic ropes/rigging
 - Confined space operations level
- Comprehension of
 - Rigging/confined space for farm bins
- Need
 - Experienced instructor team
 - Cache of equipment for entry training
 - Training props to include bin for entry
 - Minimum of 20 hours to prove competency



Technical level training

- Rescues in hazardous environments
 - Chance of engulfment/collapse of grain
 - LEL & IDLH* environments
 - Required for technical rigging for high angle extrication
 - Teams have discipline/equipment/practice/confidence
 - Proficiency (competence) through training, equipment & practice
- *would include being impaired from escaping a dangerous space—becoming engulfed

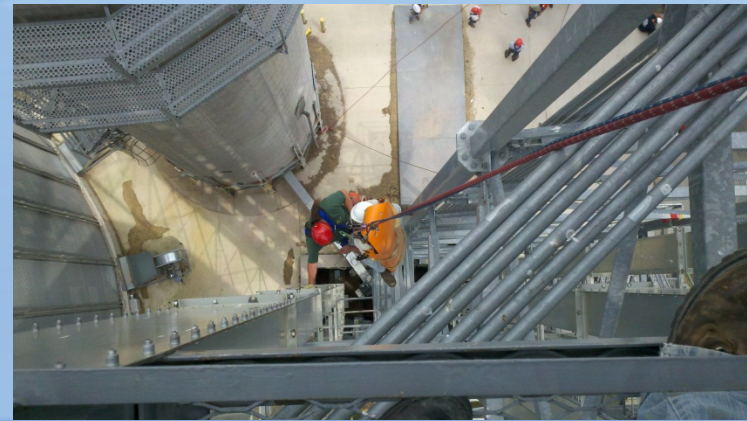
Technical level training

- Pre-requisites
 - Awareness
 - Advanced ropes/rigging (NFPA 1006 Level 2) (32+ hours)
 - Confined space technical (NFPA 1006 Level 2) (32+ hours)
- Demonstrate competencies on commercial bins
- Need
 - Definition of “competency”
 - Experienced instructor teams
 - Equipment cache of rescue equipment
 - Commercial facility for entry training
 - 24-32 hours for competency? What about existing teams?



Comprehension vs Competency

- Comprehension-ability to understand the meaning or importance of something.
- Competency-ability of an individual to do a job properly. Combination of knowledge, skills and behavior.
 - Interpret a situation and have a repertoire of possible actions to take.



Teaching issues

- Needs of audience versus standards
 - Time audience will devote
 - Money audience will devote
 - Class deliverables are well defined by standards
- Resources of instructor team
 - Knowledge/experience
 - Equipment
 - TEAM approach
- **Liability**

Limiting factors for training

- Time and money for training
- Money for equipment



Cost of training-Awareness level

- 2 Instructors @ \$250/day=\$500
- Travel for instructors \$150
- Prop use/maintenance \$100
- Total \$750
- Grain flow/entrapment trailer prop \$2,000

Cost of training-Operations level

20 hour

- 4 Instructors (1:6 class limit of 24 participants)
 - \$2,000
- Instructor travel \$1,500
 - Lodging, meals, mileage
- Prop use/maintenance \$500
- Program development/management \$500
- Total per class: \$4,500
- Cache of rescue equipment \$10,000
 - Per team

Cost of training-Technical level

24-32 hour

- 6 Instructors (1:4 class limit of 24 participants)
 - \$4,800
- Instructor travel \$2,500
 - Lodging, meals, mileage
- Prop use/maintenance \$750
- Program development/management \$500
- Total per class \$8,550
- Cache of rescue equipment \$15,000
 - Per team

Statewide estimate

- 20 Awareness classes
 - \$750 x 20 = \$15,000
 - Prop outlay \$2,000
- 10 Operations classes
 - \$4,500 x 10 = \$45,000
 - Cache outlay \$10,000 (per team)
 - Pre-requisite training? (ropes/rigging/confined space)
- 5 Technical classes
 - \$8,550 x 5 = \$42,750
 - Cache outlay \$15,000 (per team)
 - Pre-requisite training? (1006 certification for ropes/confined space)
- Total training budget: **\$102,750/state** + Pre-requisites
- Equipment costs (upfront): \$27,000 minimum/state
- Equipment grant fund for departments/agencies?
- REFRESHER TRAINING?

A plan

- Create 501 c-3
- Savvy Board of Directors
 - By Laws
 - Seek funding
- Brand
- Develop training system
- Develop/acquire training props



Develop training system

- Develop awareness & operations level training
- Develop standards for instructors
- Develop standards* for participants
- Train instructor cadre
 - Cream will rise over 2 year period
 - Drop those that don't play nice
- Program will enhance and expand-
 - Tech and expanded ops

Standards for training

- Knowledge expected to achieve
 - Pre/post testing is important
 - Funding
 - Instructor evaluation
- Skill competency
- Annual? renewal

STATION A – PLAN FOR AN INCIDENT INVOLVING AGRICULTURAL/INDUSTRIAL TRACTORS OR MACHINERY	Test Date	Candidate #
Reference NFPA 1006 - (2008 Edition), Chapter 10 Technician Level II Mandatory Station JPR: 10.2.1	Test Site	

Directions: Given guidelines, planning forms, and a technical level agricultural/industrial tractor and/or machinery incident or simulation: plan for a commercial heavy vehicle or large machinery incident; conduct initial and ongoing size-up so that the emergency situation hazards are identified; isolation methods and scene security measures are considered; fire suppression and safety measures are identified; agricultural/industrial tractor and/or machinery stabilization needs are evaluated; and, resource needs are identified and documented for future use.

Performance Outcome: Pass/ Fail will be determined by 13 of the 13 items being performed correctly

No.	Task Steps	Initial Test		Retest	
		Yes	No	Yes	No
1.	Establishes and maintains an identifiable incident management system in accordance with the AHJ				
2.	Ensures proper use of personal protective equipment by all personnel				
3.	Emergency situation hazards are identified and monitored				
4.	Completes size-up using observations, victims, bystanders and/or site information				
5.	Establishes safe operating zones (hot, warm & cold)				
6.	Establishes traffic control/work zones and places appropriate marking/signaling devices so as to control the flow of traffic				
7.	Identifies and isolates all potential ignition sources				
8.	Isolates all potentially harmful energy sources				
9.	Assures adequate fire protection is in place for given scenario				
10.	Identifies stabilization issues and resources needed				
11.	Identifies patient condition/care concerns and identifies/requests appropriate medical resources.				
12.	Incident action plan and other applicable documentation is complete and accurate				
13.	Were all tasks completed in a SAFE manner? (*NO* indicates automatic failure.)				

PASS ____	PASS ____
FAIL ____	FAIL ____

Evaluator
Comments: _____

Evaluator Signature: _____

Re-Test Evaluator Signature: _____

Instructor corps

- Start with a curriculum
 - Don't try to get EVERYONE to buy in first
 - People WILL work to make improvements
 - Some will go their own way—OKAY
- Team Attitude!!!!
 - We are ALL on the same team.
 - Lose the criticism of volunteers and other trainers

Training standards

- Refer to NFPA for awareness/ops/tech
 - Level 1 and Level 2
- What are the important things (skills) you want people to be able to perform?
 - **Objectives not tactics**
 - My way doesn't HAVE to be **THE** way
 - Hardest thing to give up this control

QUESTIONS?????