

MANAGING MACHINERY ENTANGLEMENTS

Program Description & Needs

MANAGING
AGRICULTURAL
EMERGENCIES

PAgricultural Rescue Training

Pennsylvania State University
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This module is designed to teach emergency responders (fire, rescue, EMS) how to properly manage emergencies involving machinery entanglements in various settings. Tractors and machinery are involved in nearly 50% of farm deaths and disabling injuries so rural responders must be proficient in how to manage incidents involving this equipment whether on the farm or off. The principals learned in this module have application to typical machines used on the farm as well as in manufacturing industries so this module is applicable to non-rural emergency responders as well. Participants will learn how to anticipate and control various forms of stored energy and develop rescue strategies from various types of machines. Emphasis will be placed on teamwork to achieve the best possible care for the patient and property that is involved in the incident. This **operations/technical** level training will teach emergency providers how to efficiently manage farm machinery related emergencies following NFPA 1670 Standard on Operations and Training for Technical Rescue Incidents.

- **Intended audience:** emergency responders (fire, rescue, EMS). One third of the class participants must be representing EMS.
- **Prerequisites:** Introduction to Farm Emergencies as well as Basic Vehicle Rescue and/or EMS (EMT or higher) certification.
- **PPE required:** Fire Department turn out gear or sturdy work clothing consisting of trousers and long sleeve shirt or coveralls, hardhat, eye protection, work gloves, and steel toe shoes/boots.
- **Cost:** \$100 per student. Grant assistance may be available.
- **Length/composition:** 8 hours of contact time consisting of 2 hours of classroom lecture/discussion; 1 hour of tabletop/small group activities and 5 hours of individual and group hands-on activities. Active participation is required. Contact time does NOT include class breaks or travel time.
- **Minimum/maximum:** Minimum of 10/Maximum of 25.
(over)

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- **Local resources needed:** Classroom facility to comfortably seat registered participants for first two hours and last half hour. A minimum of four farm implements, all of which can be dismantled and or cut. The implements should have as many moving parts as possible and should not be severely rusted. At least two of the implements should have functional PTO shafts. A minimum of 4 straw or paper filled manikins that will be used for the extrication scenarios. A medium or heavy rescue unit and an ALS ambulance that is dedicated to this training exercise to supply appropriate tools/equipment for the practical portion of the class.
- **Con/Ed and certification:** PA DOH has awarded 7 hours (4 hours med/trauma 3 hours other). All PA-agricultural Rescue training courses are objective based. All participants successfully completing the training will receive a course completion certificate.