

## Resources for Effective Training

Occupational Safety and Health Administration (OSHA) standards require employers to train employees in the safety and health aspects of their jobs. There are more than 100 standards that have training requirements. Some of these standards require "training" or "instruction," others require "adequate" or "effective" training or instruction, and still others require training "in a manner" or "in language" that is understandable to employees. [4/17/2007, OSHA Training Standards Policy Statement] Additionally, OSHA's training provisions contain a variety of specific requirements related to employee comprehension. There are also requirements for personnel performing certain job assignments to be "certified," "competent," or "qualified", through specialized training, education and experience.

*OSHA 2254-Training Requirements in OSHA Standards and Training Guidelines*, was published as a resource to assist employers in meeting their training obligations. The voluntary training guidelines in this publication were designed to help employers to: (1) determine whether a worksite problem can be solved by training; (2) determine what training is

needed; (3) identify goals and objectives for the training; (4) design learning activities; (5) conduct training; (6) determine the effectiveness of the training; and, (7) revise the training program based on feedback from employees, supervisors, and others. <http://www.osha.gov/Publications/2254.html>

An additional resource is the *ANSI Z490.1-2001 Criteria for Accepted Practices in Safety, Health & Environmental Training*, which establishes criteria for training programs, including development, delivery, evaluation and program management. The purpose of this standard is to provide accepted practices for voluntary application by providers of safety, health, and environmental training.

Compliance obligations should not be the sole motivation for training employees. Safety and Health training is an essential part of an employee's professional development. Our most valuable asset, and the key to the success of any business, is the employee. Investing in their growth increases morale, loyalty and efficiency. These guidelines offer information to assist in ensuring your training investment is effective and meaningful.

## UP COMING EVENTS

ASSE Zia Chapter Professional Development Conference in Las Cruces – September 30-October 2, 2009

For more information contact Manny Campos at (575) 640-5166 or [SectionChair@asse-ziasection.org](mailto:SectionChair@asse-ziasection.org)

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# COOPERATIVE PROGRAMS . PARTNERING FOR SAFETY

ALLIANCES . CONSULTATION . SHARP . STRATEGIC PARTNERSHIPS . VPP



Carol Walker, Consultant with the New Mexico Occupational Health and Safety Bureau (NM OHSB), Cooperative Programs Section, received an award from Dean McDaniel, Region VI Administrator for the United States Department of Labor, Occupational Safety and Health Administration, for her work on the development and implementation of the NM OHSB Oil and Gas Safe Site Program. The program was developed to address a growing concern for the safety and health of New Mexico oil and gas industry workers. The NM OHSB Oil and Gas Safe Site Program was established two years ago and is designed to work cooperatively with participating companies to achieve a higher level of safety and health for employees. Currently, there are three (3) active participants, eight (8) applicants pending approval, and a number of additional companies in the Permian and San Juan Basins working with NM OHSB for entry into the program.

## McVay Drilling Company Earns Recognition for Excellence in Safety and Health



McVay Drilling Company in Hobbs, New Mexico is the latest addition to the Superior Level of the New Mexico Oil and Gas Safe Site Program.

To become part of the program, McVay Drilling Company demonstrated excellence in developing and maintaining a safety and health culture through programs, attention, and training. In addition, their outstanding efforts include maintaining an injury and illness rate below the national average for their industry.

C.R. McVay and Carmen Stafford founded McVay and Stafford Drilling Company in 1941 with rigs located in Southeastern NM. Jim McVay, C.R. McVay's son, bought out Carmen Stafford in 1961 when they became McVay Drilling Company, as they are known today. Currently, the family owned NM company with expertise in deep gas, directional, and horizontal drilling operates six National Drilling Rigs in the Permian Basin.

McVay Drilling Company would like to thank their employees for providing quality service to the company and their customers. Their commitment and dedication to safety and excellence is what made them one of the outstanding Permian Basin service companies for the past 68 years.



For more information about Cooperative Programs,

Contact NM OSHA Cooperative Programs Section at:

Phone: (505) 476-8700 . Alternate: 1-877-610-6742 . Fax (505) 476-8734

Cooperative programs offer Industry and NM OSHA the opportunity to work together towards the common goal of ensuring the safety and health of New Mexico employees. Visit [http://www.nmenv.state.nm.us/Ohsb\\_Website/ohsb\\_home.htm](http://www.nmenv.state.nm.us/Ohsb_Website/ohsb_home.htm) for a complete list of participants.

# FATAL FACTS



<b>Accident Type:</b>	<i>Struck by</i>
<b>Number of Fatalities:</b>	<i>1</i>
<b>Weather Conditions:</b>	<i>Clear</i>
<b>Type of Operation:</b>	<i>Formation Fracturing</i>
<b>Size of Work Crew:</b>	<i>30</i>
<b>Safety and Health Program in Effect?</b>	<i>Yes</i>
<b>Training and Education Provided?</b>	<i>Yes</i>
<b>Employee's Job Title:</b>	<i>N2 Pump Operator Apprentice</i>
<b>Age and Gender:</b>	<i>21 Year Old Male</i>

## BRIEF DESCRIPTION OF ACCIDENT

A crew was performing a stimulation formation fracturing job (frac job) on a well site. Upon completion of the first and second stages of the processes, nitrogen pumps were put into operation to push frac materials into the newly perforated casing. Soon after the operation began, one of the four nitrogen pumps lost its boost and the operator requested to go off-line until he could correct the problem. Shortly thereafter, employees reported hearing a loud “boom” which prompted a shut down of the operation and initiated procedures for accounting for personnel. All but one employee were accounted for. A supervisor phoned emergency personnel while employees attempted to locate the missing man. The missing employee was located and pulled from underneath a nitrogen pump located adjacent to an exploded pump unit. First aid and CPR were administered until emergency personnel arrived. Emergency personnel were unable to revive the employee.

## FINDINGS

Among the equipment brought to the site for use was a vehicle-mounted nitrogen pumping unit that had been transferred from another facility and was in need of extensive repairs. No formal work order detailing the work to be performed was initiated; rather, a note was placed on the dry-erase board indicating repairs were needed. This “word of mouth” maintenance tracking method was normal shop practice.

The check valve was removed and its internal components emptied, with the intention of rebuilding it at a later date. At some point before maintenance completion, the hollow body of the valve was re-installed and the unit was released to field service.

## INSPECTION RESULTS

As a result of the investigation, NM OSHA issued a citation for two violations of the General Duty Clause Section 50-9-5(A), NMSA 1978 (New Mexico Occupational Health and Safety Act).

## ACCIDENT PREVENTION RECOMMENDATIONS

Implementation of procedures and a tracking system for maintenance activities to prevent release of defective equipment into field service.

**Note:** The case described here was selected as being representative of fatalities caused by improper work practices. No special emphasis or priority is implied nor is the case necessarily a recent occurrence. The legal aspects of the incident have been resolved, and the case is now closed.

