

Environmental Health & Safety



Top Issues and Resources Available



Research Center Administrators Society, February 22, 2010

Brian Oatman, EH&S Manager, Agriculture & Natural Resources

Overview of Safety Program

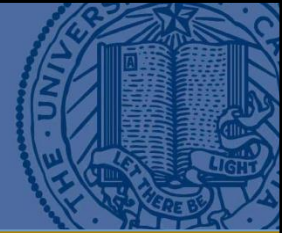


- Policies/Guidelines/Written Programs
- Safety Training
- Audit and Review
- Consultation Services
- Website
- Be Smart About Safety

- Written Programs to Meet Specific Code Requirements
 - Injury & Illness Prevention Program (IIPP)
 - Hazard Communication
 - Respiratory Protection
 - Confined Space
 - Center/Building Evacuation Plan

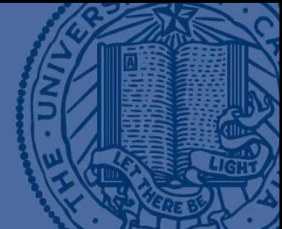
- Guidelines to Help Interpret Regulations
 - Hazardous Waste Guidelines
 - Pesticide Use & Handling
 - Fire Control & Suppression
 - Firearms
 - Field Work Safety

Safety Training



- What Training is Needed?
- How to Get Training
- Training Records

Safety Training



Training Plan and Tracking form



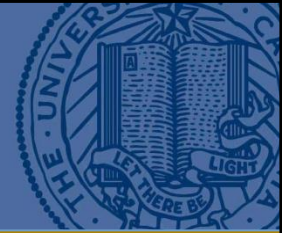
ANR EMPLOYEE HEALTH AND SAFETY TRAINING PLAN AND TRACKING FORM FIELD EMPLOYEES

Employee: John Doe
Position: Aq Tech

Date: 2/21/2010

Type of Training	Refresher Training Frequency	Training Required	Training Dates							
			Initial	Refresher	Refresher	Refresher	Refresher	Refresher	Refresher	Refresher
Record Keeping and Tracking for Employee Health and Safety Training	Changes or Annual	Yes	01/04/10							
Good Health and Safety Practices Related to Position Tasks	5 Years	Yes	01/04/10							
Building Evacuation Plan(s)	Changes or 5 Years	Yes	01/04/10							
Injury Illness Prevention Plan (IIPP)	Changes or 5 Years	Yes	01/04/10							
Emergency Response Plan	Annual	Yes	01/04/10							
Fire Prevention Plan	5 Years	Yes	01/04/10							
First Aid Kits and Equipment	5 Years	Yes	01/04/10							
Eyewash/Showers	5 Years	Yes	01/04/10							
Good Housekeeping	5 Years	Yes	01/04/10							
Asbestos Notification	Annual	Yes	01/04/10							
Heat Illness Prevention	Changes or 5 Years	Yes	01/04/10							
Lead Paint Awareness and Notification (Residents Only)	New Hazards	Yes								
	New Hazard or 5 Years	Yes	01/04/10							
Material Safety Data Sheets	Changes or 5 Years	Yes	01/04/10							
Bending	Changes or 5 Years	Yes	01/04/10							
Computer Workstation	Changes or 5 Years	Yes	01/04/10							
Continuous Standing/Sitting	Changes or 5 Years	Yes	01/04/10							
Lifting	Changes or 5 Years	Yes	01/04/10							
Pushing/Pulling	Changes or 5 Years	Yes	01/04/10							
Repetitive Motion	Changes or 5 Years	Yes	01/04/10							
Slip / Trip / Fall	Changes or 5 Years	Yes	01/04/10							
Respiratory Protection	Changes or Annual	Yes								

Safety Training



Training Resources

- Safety Notes
- Video Library
- Powerpoint Slideshows
- In-Person Training
- Web-Based Training



Training Video Request Form

The following training videos are available for loan to any University of California personnel. Requests will also be accepted from other public agencies or non-profit organizations in California.



Safety Note

UNIVERSITY OF CALIFORNIA
AGRICULTURE AND NATURAL RESOURCES
ENVIRONMENTAL HEALTH AND SAFETY



Safety Note #8

GENERAL TRACTOR SAFETY



It has been estimated by the National Safety Council that 460 people died from tractor injuries during 1990. Typically, 75% of tractor deaths involve the driver. About 50% of the mortalities are due to tractor overturns and 25% are due to runovers. Videos E-001 and S001 Tractor Accidents are available from the ANR Environmental Health and Safety Library at <http://safety.ucanr.org>.

Pre-Use Activities

- Thoroughly review and understand information provided in the tractor operator's manual with particular attention given to descriptions of safety procedures.
- Always perform a pre-shift tractor inspection, including checking fluid levels, lights and signals, tires, and guards and shields. Inspect tractor for loose hydraulic connections and worn or loose parts such as hitch pins or lug nuts.
- If a tractor fails the pre-shift inspection, notify your supervisor and remove the tractor from service by attaching a red tag that states "DO NOT USE." Complete red tag with appropriate information.
- Annual tractor training is required by California regulations (Title 8, Section 3664 b) and should incorporate both general tractor training and specific training review on the tractor(s) that employees may use.

Operating Precautions

- Before starting a tractor, look for people or obstructions behind or ahead of the tractor.
- As the tractor begins to move, engage the clutch slowly and evenly – avoid jerky starts, turns, or stops.
- Never carry passengers on a tractor.
- If the tractor has a roll-over protective structure (ROPS), the seat belt must be used.
- Never attach implements unless the power take-off (PTO) shaft is guarded.
- Always hitch towed loads to the tractor drawbar.
- Avoid operating a tractor within six feet of ditches, holes, depressions, and embankments.
- Reduce speed when turning on roads or at row ends, crossing slopes, or driving on rough, slick, or muddy surfaces.
- Do not operate tractors on slopes too steep for safe operation.
- Descend slopes in low gear while using the tractor motor as a brake.
- Never adjust or work on implements unless the tractor is shut off and the implement is deenergized.
- When parking, always lower the three point linkage and towed implement.
- Take regular breaks when operating tractors for long periods of time.
- In order, tractor shutdown procedures are: (1) setting the PTO lever in neutral; (2) engaging the parking brake or shifting the transmission lever to the park position; (3) and turning off the engine.

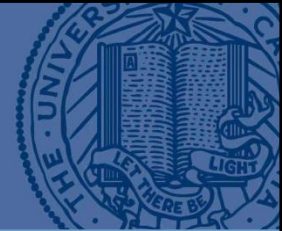


June 2004

Additional EH&S information may be accessed at the ANR Web Site at: <http://safety.ucanr.org>



Safety Program Reviews



- Annual Inspections
- Detailed Checklist
 - Safety observations and records (OSHA)
 - Fire Code
 - Hazardous Materials/Waste (CA Dept of Toxics)
 - Sanitation (Public Health)
- Report
 - Identify potential violations
 - Cite applicable code
 - Suggest corrective actions
 - Hazard ranking (imminent, serious, moderate, minor)

PERIODIC WORKSITE INSPECTION CHECKLIST
 UNIVERSITY OF CALIFORNIA
 AGRICULTURE AND NATURAL RESOURCES
 INJURY AND ILLNESS PREVENTION PROGRAM

SITE LOCATION: _____ DATE: _____

NAME OF INSPECTOR: _____

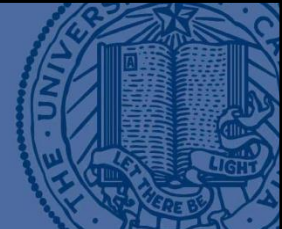
Note to inspector: Some topics on this checklist may not apply to many ANR locations. Use the sections that apply to your location or operations and draw a line through any section that is not applicable.



RECORD KEEPING

	Yes	No	N/A	Date Corrected
1. Medically Related Information				
A. Cholinesterase testing current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
(1) Written agreement on file?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
B. Hearing tests current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
C. Injury/illness reports filled out and submitted on time?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
D. Organophosphate/Carbamate surveillance current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E. Animal Handlers questionnaire and medical surveillance current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
F. Respirator Use questionnaire and fit test current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
G. Other required medically related information: _____				
2. Training Records				
A. Records of initial and refresher training are current and on file? (ie: Employee Health & Safety Training Plan and Tracking form)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
B. Pesticide safety training form used and filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
C. Forklift and Tractor training records current and filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
D. Animal Handlers training current and filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E. Training forms used and kept on file?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
F. Personal protective equipment training current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
G. Emergency response/building evacuation protocols?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
H. Safety awareness programs in place and training recorded?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
I. Other required training: _____				
3. Inventories/Inspections				
A. Chemical/pesticide inventories current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
(1) Annual submittal of Hazardous Materials Business Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
B. Hazardous waste inventory current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
C. Fire extinguisher location inventory current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
(1) Annual fire extinguisher service current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
(2) Monthly fire extinguisher inspections current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
D. Pressure vessel (stationary/portable tanks and boilers) permits current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E. Monthly Emergency Eyewash/Shower Unit inspections current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
F. Are all safety and maintenance inspections recorded and filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
G. Above ground fuel tank inspections and permits current?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

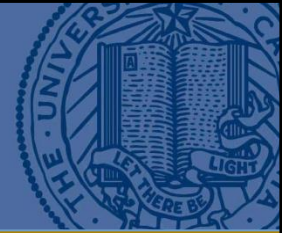
Periodic Worksite Inspection Checklist (revised 12/20/2005) Page 1

Safety Program Reviews



RESEARCH and EXTENSION CENTERS ADMINISTRATIVE OFFICE ENVIRONMENTAL HEALTH and SAFETY PROGRAM REVIEW DESERT RESEARCH and EXTENSION CENTER			
DATE OF REVIEW: October 12, 2009			
ITEM No: SUBJECT: LOCATION: ATT:	ITEM DESCRIPTION	HAZARD EVALUATION	STATUS (FOR LOCATION USE) (DESCRIPTION OF CORRECTION)
6 MACHINE GUARDS Feed Mill Shop F1 F2	<p>The table grinder is missing the required safety guards resulting in a potential injury. CCR/8-3577 requires abrasive wheels to be provided with safety guards which shall be of such design and construction as to effectively protect the employee from flying fragments of a bursting wheel. The grinder is out of service until guards are installed. See attached CCR/8-3577 and Safety Note #15.</p> 	SERIOUS	
7 COMPRESSED GAS Maintenance Shop G1 G2	<p>The valve to the Argon compressed gas cylinder was left open while not in use, resulting in a potential hazard. CCR/8-4650 requires cylinder valves to be closed when work is finished. Recommend instructing shop personnel on proper compressed gas procedures. See attached CCR/8-4650 and Safety Note # 45 (Basic Gas-Welding Safety).</p> 	MODERATE	

Top Audit Findings



1. Fire Extinguishers

- No proper signage
- Missing or out of date tag
- Access blocked



2. Hazard Communication

- Improper labeling of chemicals
- No Material Safety Data Sheet (MSDS)



3. Housekeeping



Top Audit Findings



4. Aisle & Walkways

- Inadequate clearance
- Obstructed exits

5. Live Loads

- Items stored dangerously

6. Emergency Evacuation Plans

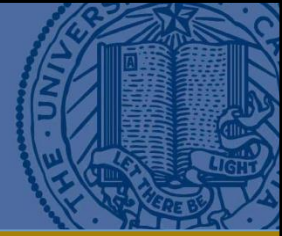
- Contact information out of date
- Evacuation map incomplete

7. Hazardous Waste Mgmt.

- Storage of waste beyond time limits



Top Audit Findings



8. Electrical Equipment/Cords

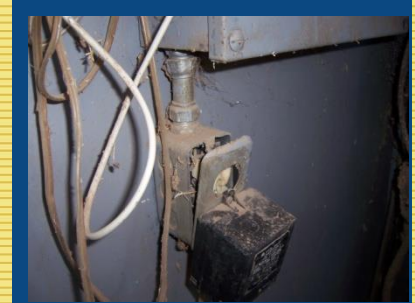
- Exposed wiring or shielding
- “Daisy chained” extension cords
- Overloaded power strips

9. Labeling of Hazardous Waste

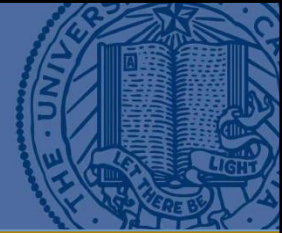
- Failure to label waste
- Missing information on labels

10. Missing Machine Guards

- Grinders, saws, etc.

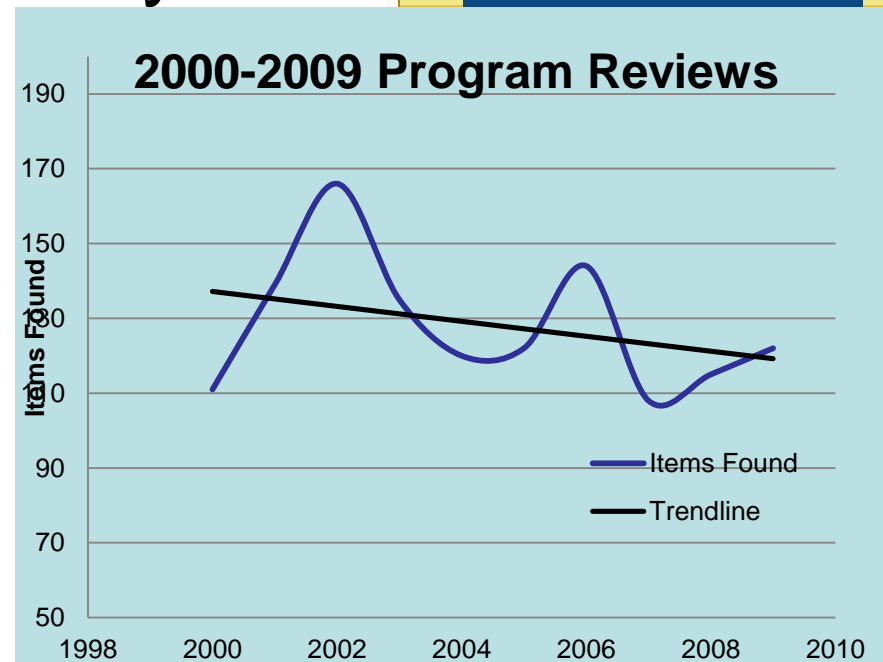


Safety Program Reviews



Results

- Improved compliance
(Downward trend of findings)
- Good results on regulatory inspections
 - Nine inspections last year
 - One fine - \$100



Consultation



- Accident Investigation
- Regulatory Compliance
- Environmental Monitoring
- Ergonomics
- Respirator Fit Testing
- New Regulations
- Risk Assessment

- Safety Coordinators

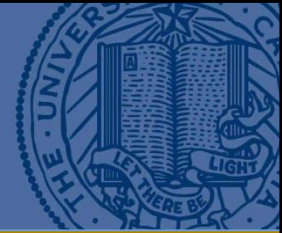
- Training
- Webinars
- e-mail listserve

- Onsite Visits

- Website

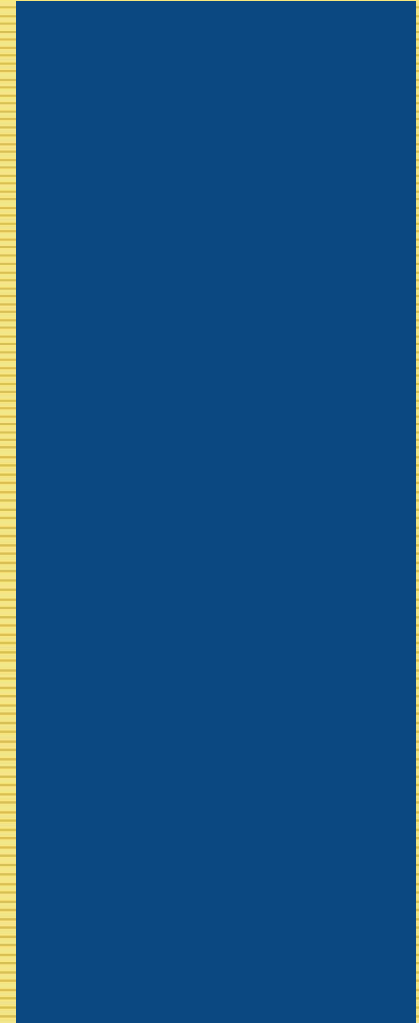
<http://safety.ucanr.org>

Safety Coordinator

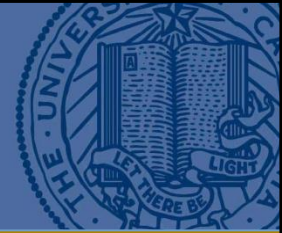


Duties and Responsibilities

- Ensure that the Injury & Illness Prevention Program (IIPP) requirements are met
- Perform or coordinate annual workplace inspections
- Assist with investigation of work-related injuries
- Be a health and safety resource for co-workers
- Assist with review and assessment of the department's safety program
- Post safety information



Be Smart About Safety



- Use Workers Compensation funds to invest in prevention
- Projects include:

Automatic External
Defibrillators (AEDs)

Equipment guarding

Ergonomics

Fall protection gear

Fire protective gear

Heat illness prevention

Hydraulic lifts

Ladders/Work platforms

Lighting improvements

Livestock squeeze chute

Radio repeater

Spill containment

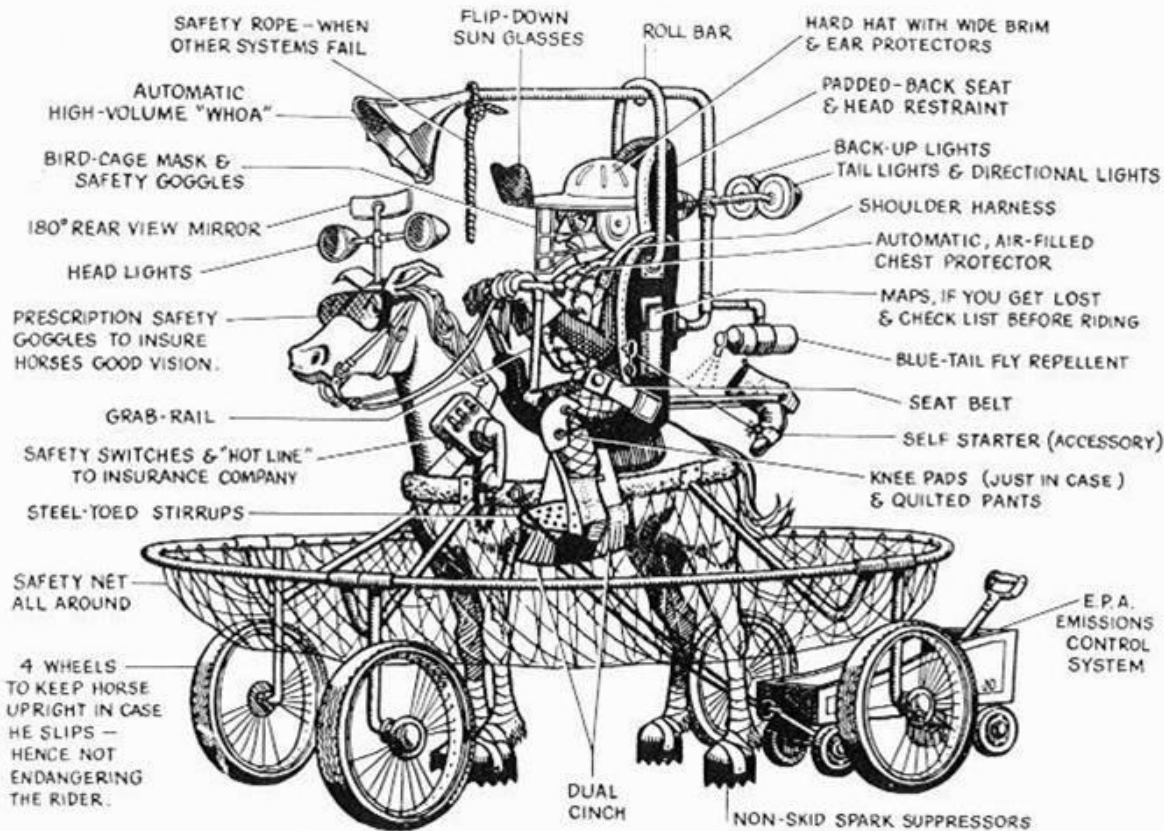
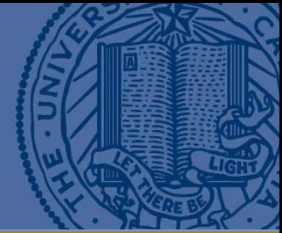
StopSaw

Traffic Barricades

Training (first aid/CPR,
Driver Safety, Pesticide,
Haz Comm)



Questions?



Cowboy after O.S.H.A.

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