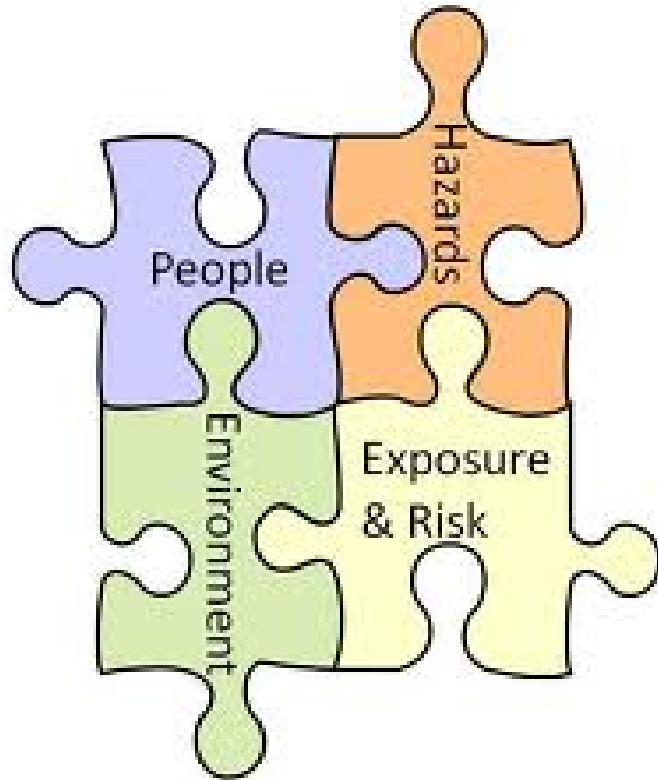


ACME CHEMICAL CO. OCCUPATIONAL HYGIENE



Ashley Tranello

WORKSITE ANALYSIS

- ⦿ Personnel protective equipment needs to be updated to meet current OSHA requirements
- ⦿ failed to keep out fumes 1,2-dichloroethane.
- ⦿ No personal health information in workers files
- ⦿ Biological monitoring needs improvement

PERSONAL PROTECTIVE GEAR

- ⦿ Respirator masks need to be updated
- ⦿ Ear plugs should now be included in protective gear – avoid long term hearing loss



BIOLOGICAL MONITORING (MEDICAL TESTS)

- Urine and blood sample test's should be carried out before an employee is hired at Acme AND routinely in order to accurately assess any abnormal levels of toxins present
- Currently Acme only tests employees when hazards occur

OCCUPATIONAL DERMATOSIS

- ⦿ 2-Thiopheneacetyl chloride and Glycolide, 2-Thiopheneacetyl chloride, thionyl chloride used in Acme chemical process have caused the potential to cause chronic contact eczema
- ⦿ Perhaps substitutions for these chemicals can be made

FUGITIVE EMISSIONS

- ⦿ 1,2-dichloroethane and other fumes were detected in the site wide analysis
- ⦿ New ventilation should be installed

PSYCHOLOGICAL AND PHYSIOLOGICAL STRESSORS AT ACME

- ⦿ Spend more time improving ergonomic hazards
- ⦿ Pay more attention to repetitive motion disorders (ex: chronic back problems), and stress or emotional issues workers may face on the job
- ⦿ Possible long term effects from physiological and psychological stressors- hypertension, heart disease, ulcers, asthma, mental instabilities.

SOLUTIONS

- ◉ Improve internal communications
 - ◉ More Flexible Management Style
 - ◉ Company Team Building Activities
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- ◉ Happy workers means higher productivity, less mistakes that could be hazardous to employee health and the environment
 - ◉ Increased efficiency = better turnout for Acme



IMPROVING OCCUPATIONAL RECORD KEEPING

- Should go beyond information provided by the Materials Safety Data Sheet and should include:
 - A detailed explanation of each workers job operation
 - Personal health status information
 - Duration of exposure to chemicals

This can help make possible links between chronic disease and occupational exposure for a worker in the future.

- ⦿ Substituting the more hazardous chemicals with less harmful ones or not using them at all can help reduce waste and improve efficiency.

