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1988

NIOSH

Videotape

Listing

**Division of Training and
Manpower Development**

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control
National Institute for Occupational Safety and Health

VIDEO TAPE INFORMATION

The Division of Training and Manpower Development has produced a number of video tape training programs to augment their course offerings. Some of the programs are meant to “stand alone,” without a training course context. Many of these programs are available from:

**The National Audiovisual Center
National Archives and Records Administration
8700 Edgeworth Drive
Capitol Heights, MD 20743-3701
Telephone: (301) 763-1896**

You can also order these programs from NIOSH.

NIOSH VIDEO TAPE ORDER INFORMATION

1. Copies of these programs may be purchased. Prices are indicated for each title.
2. Review (loan) copies are available at no charge upon written request **only**; first come, first served. Order by program number and title.
3. Review copies must be returned within five days of receipt.
4. We prefer that you request review copies one at a time, i.e., one show per letter. However, you may arrange to borrow a number of tapes at once by making special arrangements for shipment and prompt return. Call Roger Wheeler at (513) 533-8261. We must have quick return of multiple tape orders since they represent a bigger portion of our library that is unavailable for use by others.
5. We will not provide a videotape for a specific show date. We do not operate a calendar system for our library. Tapes are sent out in the order they are requested. If you need to show a program on a specific date, request it considerably in advance, duplicate it when you receive it (ALL OF OUR PROGRAMS ARE IN THE PUBLIC DOMAIN), and send it back to us within the five day limit.
6. **IMPORTANT:** You must note the tape format you need on all communications with us. The format options are ½" Beta I, Beta II or VHS, and ¾" U-matic. Orders without this information will not be processed.

Please direct all orders to:

NIOSH—Publications
Attention: Ms. Barbara Friedel
4676 Columbia Parkway
Cincinnati, Ohio 45226-1998
(513) 533-8287
FTS 684-8287

VIDEO TAPE TITLES

EtO (ETHYLENE OXIDE)

Tape number 197 / 20 minutes / 1986 / \$110

This program is for engineers and managers in health care facilities where EtO is used for sterilization. NIOSH has concluded that EtO is mutagenic and carcinogenic, and that steps should be taken to reduce exposure risks to the lowest feasible level. Shot on location in a hospital clean room, the video covers four sources of EtO exposure: the supply cylinders, the sterilizers, the load transfer, and the aerators. Recommended control measures are covered including dedicated local exhaust ventilation at potential emission points, sealing drain systems, and work practices. Emergency response procedures, respirator programs, personal exposure monitoring, and training are discussed.

VISIONS OF PREVENTION

Tape number 196 / 27 minutes / 1985 / \$110

A discussion of the National Symposium on the Prevention of Occupational Diseases and Injuries. The symposium was held in Atlanta, Georgia in June of 1985. Dr. Duane Block, Medical Director of the Ford Motor Company, Dr. Phillip Polakoff, Principal at Integrated Health Management Associates in California, Dr. Robert Spear, University of California at Berkeley, and Mr. Richard Duffy, Director of Safety and Health for the International Association of Firefighters are featured in a discussion of future directions of prevention strategies for reducing injuries and disease in the workplace.

FILTER MOUNTING PROCEDURE

Tape number 194 / 12 minutes / 1984 / \$80

The “new” NIOSH method for mounting sampling cassette filters on microscope slides is demonstrated in step-by-step, cookbook fashion. Known as method #7400. Suitable for those who need to accomplish this task. Used primarily for asbestos sampling work. This program was **UPDATED in 1986** to include a segment on a method refinement that significantly simplifies the procedure.

DUAL PROTECTION

Tape number 192 / 14 minutes / 1984 / \$95

This program highlights the technology available to control safety and health hazards in spray painting operations. Coating substitution, process substitution, proper ventilation, isolation of the paints, and good work practices are covered. The audience for the program is managers and supervisors of spray paint operations, and the intent is to motivate them to use appropriate control strategies in the workplace.

BEHAVIOR BASED SAFETY MANAGEMENT

Tape number 195 / 21 minutes / 1985 / \$95

Gene Earnest, safety engineer with the Proctor and Gamble Company, presents a paper on P&G's approach to safety management. This material first appeared in the “Journal of the American Society of Safety Engineers,” and is used here by permission. Audience: safety professionals.

IT'S A NEW DAY

Tape number 193 / 19 minutes / 1984 / \$95

A philosophy of managing occupational safety and health is depicted in this program about The Drackett Company, a household products manufacturer. Through interviews with management and employees, these activities are covered: job safety analysis, incentive awards, emergency response team training, light duty, and communications. Audience: teachers at schools of business administration, although OS&H professionals may also be interested.

INNOVATIONS IN BELT SANDER VENTILATION

Tape number 180 / 8 minutes / 1984 / \$80

A look at local exhaust ventilation systems designed by Dr. Vladimir Hempl of NIOSH's Division of Physical Sciences and Engineering. Two systems are demonstrated and the dramatic dust reduction results of 75% and more are shown. Audience: Industrial hygienists, engineers, and other health professionals.

RADIOFREQUENCY HEATER/SEALER SURVEYS

Tape number 190 / 16 minutes / 1983 / \$95

This program presents a step-by-step overview of how to conduct a RF exposure survey in the field. The program includes footage of a mock-survey in a plant where RF sealers are used. Basic approaches to exposure control are covered. Audience: Managers, supervisors, industrial hygienists, union representatives and others responsible for safe operation of RF sealers.

THE FINEST TOOLS

Tape number 188 / 24 minutes / 1982 / \$110

The program covers the nature of cumulative trauma disorders of the hand and wrist, e.g., carpal tunnel syndrome. Margit Bleecker, a physician at Johns Hopkins University, describes how repetitive jobs can damage a worker's body. Dan Habes, industrial engineer, describes how to analyze a job to determine how stressful it is. The program also shows practical examples of how jobs can be altered to stress the worker less. Audience: Managers and supervisors.

CASE STUDY OF AN ASSEMBLY LINE

Tape number 103 / 20 minutes / 1982 / \$95

Produced by the Department of Environmental Health of the University of Washington. By examining a study of telephone assembly line workers, the program shows how important ergonomics and its sub-field, biomechanics are to a successful operation. The viewer sees a number of assembly line stations as the biomechanical problems are pointed out. Although the opening credits indicate that this program is for second year medical students, we believe its potential audience to be much broader.

SPIROMETRY: THE 3 ELEMENTS OF EFFECTIVE TESTING

Tape number 114 / 15 minutes / 1980 / \$95

This program covers proper spirometer testing procedures. Machine preparation, subject preparation, testing execution and test result validation are demonstrated and analyzed in detail.

INDUSTRIAL LOSS CONTROL THROUGH BEHAVIOR MANAGEMENT

Tape number 138 / 25 minutes / 1980 / \$95

Behavioral solutions to industrial safety problems are illustrated in this program which presents principles of behavior management as well as an example of their successful application in an industrial setting. Professionals in the field of behavior management introduce the principles they have applied and tested in the workplace. An incentive program which eliminated $\frac{2}{3}$ of the accidents in an open pit uranium mine exemplifies the use of those principles.

ASBESTOS SCREENING PROCESS

Tape number 154 / 17 minutes / 1979 / \$95

This program examines an inexpensive and simple method for identifying asbestos in bulk samples. The color test, developed by NIOSH scientists Walter S. Kim and Richard E. Kupel, reveals the presence of magnesium or iron often found in asbestos samples. These two men are interviewed and the test process is demonstrated.

FIRST CONSIDERATION

Tape number 176 / 27 minutes / 1981 / \$110

The theory of control technology is explained in some detail. The principles advocated are shown in application at a pesticide formulation plant in St. Joseph, MO. This program was designed for an audience of engineers, but will be of some interest to many people in the field of occupational safety and health.

HAZARDS OF GAS WELDING

Tape number 183 / 16 minutes / 1981 / \$95

This program was produced by San Diego Community College for use in the NIOSH vocational education safety course. It may be of use outside of that context.

VIBRATION SYNDROME

Tape number 177 / 27 minutes / 1981 / \$110

A program produced for medical professionals. It covers the etiology, symptomatology, assessment, and treatment of this condition. It includes a brief introduction to the physics of vibration, and an examination of different assessment techniques.

LIFTING AND ANALYSIS

Tape number 179 / 17 minutes / 1981 / \$95

This program was produced for managers, supervisors, safety specialists, loss controllers and others responsible for safety and health in their operation. It demonstrates how to calculate the parameters for *safe* lifting activity in specific example situations. It is based on technical information in "Work Practices Guide for Manual Lifting" (DHHS/NIOSH Pub. No. 81-122).

CONFINED SPACE ENTRY

Tape number 701 / 14 minutes / 1981 / \$95

Produced for NIOSH by San Diego Community College. Audience: line supervisors and employees who may encounter work tasks in confined spaces. Covers cleaning and preparation of the space and an escape route, the importance of training, monitoring the atmosphere in the space, the use of proper personal protective equipment, communications devices, and preparation for emergencies. Includes helpful footage of the proper gear for confined space entry.

INDUSTRIAL HYGIENE PROCEDURES SERIES

The following nine programs were produced for use in training courses sponsored by the Division of Training and Manpower Development. They demonstrate use of specific industrial hygiene measurement equipment, and are designed to be used prior to a "hands-on" laboratory where the viewer receives further instruction.

PERSONAL SAMPLER CALIBRATION

Tape number 010 / 11 minutes / 1985 / \$95

This program represents a better video production of procedures demonstrated in program #002 (see below). A bubble burette is used to calibrate the scale markings on a personal sampler pump. The wet test meter is not demonstrated.

PITOT TRAVERSE

Tape number 001 / 15 minutes / 1977 / \$95

A demonstration of the standard pitot tube method for determining average linear velocity and the volume of air flow through ducts. This program includes a description of the equipment used, how to find a sample point in the duct, measurement technique and data collection and calculation procedures.

PERSONAL SAMPLER CALIBRATION

Tape number 002 / 12 minutes / 1976 / \$95

A demonstration of two methods for assigning flow rate values to the indication marks on the rotameter of a personal sampler. Equipment and the pump components are reviewed. The two methods of calibration covered are: 1) the burette and soap solution method and, 2) the use of the wet test meter. (See tape #010, a more recent version of this material)

PERSONAL SAMPLER PUMPS

Tape number 003 / 16 minutes / 1977 / \$95

A demonstration of the calibration of low flow rate personal sampler pumps to determine the volume of each pump stroke. Several brands of pump are shown and the use of bubble burette for measuring flow rate is explained.

ROTAMETER CALIBRATION

Tape number 004 / 10 minutes / 1977 / \$95

Demonstration of the calibration of a rotameter by the assignment of flow rate values to the rotameter's scale markings. The program includes information on primary, secondary and intermediate standards, and a listing of equipment necessary to calibrate. Equipment set-up, interconnection and operation are covered as well as how to plot the flow rate chart for the rotameter.

SOUND LEVEL METER CALIBRATION

Tape number 005 / 8 minutes / 1976 / \$95

A demonstration of field calibration of a sound level meter to assure that the meter is functioning properly and within accepted limits. This includes a battery check, scale settings on both the meter and its calibrator, the use of the C weighting network, and the check of readings against standards listed in the operation manual.

COMFORT VENTILATION SYSTEMS

Tape number 006 / 13 minutes / 1978 / \$95

Several air velocity measuring instruments are introduced. A swinging vane anemometer is used to measure air velocity at several grille surfaces. Volumetric flow rate is calculated, using average velocity and the effective free area of the grille surface.

EVALUATION OF INDUSTRIAL HOODS

Tape number 007 / 24 minutes / 1978 / \$95

This program demonstrates air flow measurement technique at several different hood surfaces, and compares hood efficiency. Volumetric flow rate, transport and capture velocity, and hood static pressure are discussed and measured. The use of the pitot tube, a thermal anemometer, and a Magnehelic gauge are demonstrated.

COMBUSTIBLE GAS DETECTOR CALIBRATION

Tape number 008 / 24 minutes / 1979 / \$95

Apparatus for generating a solvent vapor in air is used to compare a gas detector's readings with a calculated concentration of solvent in the air sample. The generation of the solvent vapor, the recording of readings, and the calculations are all demonstrated.

SAFETY IN THE SCHOOL SCIENCE LABORATORY SERIES

The following fourteen programs were produced for an audience of secondary school teachers and their supervisors. Problems specific to that audience are emphasized in each tape. Each program is a taped lecture before a live classroom audience. These programs were not scripted for the television medium. This series was produced in 1979.

THE SCOPE OF THE PROBLEM

Tape number 144 / 43 minutes / 1979 / \$75

This lecture by N. J. Berberich, Ph.D., gives an overview of the course material and provides an assessment of school science laboratory safety and health needs.

PERSONAL PROTECTIVE EQUIPMENT

Tape number 140 / 51 minutes / 1979 / \$75

Glenda White's lecture covers a number of procedures to protect laboratory users. Eye goggles, aprons, gloves, face shields, etc. are discussed as well as hazards to eyes and faces in the laboratory. Emergency equipment such as eyewash stations are also discussed.

STUDENT INVOLVEMENT IN SAFETY PROGRAMS

Tape number 141 / 35 minutes / 1979 / \$75

This lecture by James B. Walters, M.P.H., identifies ways to encourage student interest in laboratory safety. He suggests a number of strategies to create opportunities for participation by all students interested in laboratory safety. Safety committees, contracts, and reports are some of the techniques discussed.

FIRE PREVENTION AND CONTROL

Tape number 142 / 39 minutes / 1979 / \$75

James B. Walters, M.P.H., lectures on resources of information for effective fire prevention, discusses potential sources of fire and explosion in the school science laboratory, and compares and contrasts different types of fire extinguishers.

CHEMICAL PROCUREMENT AND INVENTORY CONTROL

Tape number 143 / 34 minutes / 1979 / \$75

N. J. Berberich, Ph.D., emphasizes techniques that can be used to minimize accident potential in laboratories due to poor chemical inventory and procurement practices.

STORAGE AND DISPOSAL OF CHEMICAL REAGENTS

Tape number 145 / 28 minutes / 1979 / \$75

Thomas C. Purcell, Ph.D., examines the elements of a proper storage system and the facilities necessary to safely store a wide range of reagents. He also explores resources for information on chemical disposal.

SAFETY PROGRAM PLANNING

Tape number 146 / 37 minutes / 1979 / \$75

James B. Walters, M.P.H., lectures on ways and means of motivating student interest in laboratory safety. Specific mechanisms for getting everyone actively involved in a comprehensive safety program: safety committees, safety contracts, safety and health research, and other techniques are covered.

LABELING

Tape number 147 / 16 minutes / 1979 / \$75

N. J. Berberich, Ph.D., identifies the types of information that should be given on chemical reagent container labels. DOT, MCA, NFPA, and NIOSH labeling recommendations are compared and contrasted.

LEGAL ASPECTS OF LABORATORY SAFETY

Tape number 148 / 46 minutes / 1979 / \$75

N. J. Berberich, Ph.D., lectures on legal aspects and provides information about the potential liability arising from injury-producing accidents in a teacher's laboratory. He cites the circumstances of a number of court proceedings across the country to illustrate his points.

LABORATORY VENTILATION

Tape number 149 / 19 minutes / 1979 / \$75

Thomas C. Purcell, Ph.D., lectures on an area of school science laboratory safety which is often more important to the teacher who is exposed to the laboratory environment for longer periods of time than most students. He discusses different types of ventilation systems, how they work, makeup air, hoods, fans, and so forth.

RECORDKEEPING

Tape number 150 / 32 minutes / 1979 / \$75

James B. Walters, M.P.H., lectures on a practical approach to keeping records that helps meet different needs, from justifying a program's existence, to protecting schools and faculty from liability claims. Inventory records, accident investigations, and near-miss records are among the types of records he discusses.

BIOLOGICAL AND ANIMAL HAZARDS

Tape number 151 / 22 minutes / 1979 / \$75

N. J. Berberich, Ph.D., discusses the major biological hazards: bacteria and viruses, laboratory animals, botanicals and body fluids.

HANDLING GLASSWARE

Tape number 152 / 14 minutes / 1979 / \$75

Thomas C. Purcell, Ph.D., reviews recommended glass storage practice, and discusses glassware selection. Proper procedures for cleaning, cutting, and disposing of laboratory glassware are also discussed.

LABORATORY HARDWARE AND SURVEYS

Tape number 153 / 50 minutes / 1979 / \$75

James B. Walters, M.P.H., lectures on the most common safety hazards found in school science laboratories. He provides data on types of injuries and how they occurred in school laboratories. He also discusses safety products that are available, from safety stations to ground fault interrupters, and how to conduct a hazard survey.

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