

# Learning Resources

## Chemical Safety In The Laboratory

Introduction to common terminology; routes of exposure; recognition of different classifications; proper handling techniques are demonstrated.

Adult  
34 minutes, order 1-8301-IN

## The Chemical Hazard Identification & Training Series (Chit)

Employee Education Edition

This series ... the only complete compliance program reviewed and approved by the U.S. American Society of Safety Engineers for use by its members ... is designed to help companies comply with Right to Know laws.

An Introductory Overview and six videos equip workers with a better understanding of chemicals and their hazards. Clear dramatizations portray proper methods of chemical handling, labeling, and storage. Each video is accompanied by an extensive Presenter's Manual which reviews major points and objectives, and includes a post viewing test. Produced by the Marcom Group.

### Introductory Overview

To protect workers from possible injury, "Right to Know" laws mandate that all employees working among hazardous chemicals be informed about those chemicals and advised of the safety precautions to use when

*Navigate workers through MSDA, outline a plan for chemical spills, fires, injuries, leaks and natural disasters, these programs show the serious effects of these toxic substances.*

handling them. This detailed overview explains Right to Know and develops worker's understanding of their own role in being and staying informed.

19 minutes, order 1-8291

### Corrosives and Irritants

The risk of exposure to corrosives and irritants can be significantly reduced if employees practice the safety procedures taught in this program. Workers will learn why corrosives and irritants are considered hazardous, and how they should be handled and stored. Emergency medical clean up treatments are clearly demonstrated, along with the personal protective gear employees should wear.

11 minutes, order 1-8292

### Toxins and Poisons

Although many toxic substances are not considered to be poisonous, workers should treat them with the same degree of caution they would other harmful chemicals. This program explains the serious effects

toxic substances can have on the body and illustrates effective safety precautions to follow when using toxic and poisonous chemicals.

12 minutes, order 1-8293

### Flammables, Combustibles and Explosives

Several commonly used substances are included in the flammable, combustible, and explosive chemical group. This program reminds workers that even frequently used chemicals are a hazard and should always be used carefully. Examples of potentially dangerous situations involving these chemicals are given, followed by correct procedures.

13 minutes, order 1-8294

### Carcinogens, Mutagens and Teratogens

Chemicals that can damage the pattern of cell growth are classified in the carcinogen, mutagen, and teratogen group. This program clarifies the hazards these extremely dangerous chemicals present in the workplace, and illustrates the

precautions necessary when working with them. Special emphasis is given to proper hygiene and emergency preparedness.

10 minutes, order 1-8295

### Biological Hazards

Employees working in environments where live organisms such as viruses, bacteria, and fungi are present are at serious risk of contracting the illness or disease those organisms carry. In this program, workers are shown how infection occurs and how to protect themselves from exposure. The types of work environments where biological hazards can be found, and the types of jobs where employees can be exposed are discussed.

13 minutes, order 1-8296

### Radiation Hazards

Radiation comes in several different forms and levels of intensity. Though beneficial in many professional settings, radiation has a dangerous side: employees who work in its vicinity must guard their safety. This program discusses several sources and types of radiation and examines each one's potential for harm. It stresses the use of proper labeling and storage techniques. Additionally, the program covers the use of protective clothing and equipment, and emergency and disposal procedures.

15 minutes, order 1-8297

Adult  
93 minutes, order 1-82910-IN



## Learning Resources

### The Elements Of Safety Series

This comprehensive series examines the many facets of laboratory safety, giving employers and employees easily understood instructions on complying with regulations and providing for the safety of themselves and those around them. Each program comes with a Presenter's Manual that reviews major points and objectives and includes a post viewing quiz.

#### Flammables and Explosives

Discusses flash points, limits of flammability and ignition temperature, removal of equipment that causes heat/sparks. Read MSDS (data sheets) to determine flammability of different chemicals. Label contents correctly. Plan for spill situations, use protective gear as needed, check containers for corrosion. Label waste contents.

Defining such concepts as flashpoint, limits of flammability and ignition temperature, this program teaches viewers the basics about flammables and explosives and also recommends safe chemical heating devices; how to prevent flashbacks, safely store chemicals, check for leaks in storage cylinders, dispose of waste products and absorb spill.

11 minutes, order 1-8518

### Orientation to Lab Safety

Overview of lab safety. Discusses MSDS sheets, safe use of chemicals, lock out/tag out. Plan out experiments, wear protective gear as needed, housekeeping, safety showers, eye washes and how to use them.

Urging viewers to learn the safety rules of each lab they work in, this program looks at the elements which are the most crucial to understand, including: Safety Data Sheets, Chemical Hygiene Plans, Lock-out/tag-out procedures, fire extinguisher locations, safety shower and eye wash locations, escape routes, chemical clean-up procedures, personal protective equipment and respiratory protection standards.

10 minutes, order 1-8519

#### Safety Showers and Eye Washes

Simple showers are best. If chemical spill occurs, immediately drench victim for fifteen minutes. Read MSDS sheets, use protective gear, know locations of showers and eye washes. If splashed, don't panic. People who help victim may also have to be decontaminated.

Examining various types of safety showers and eye washes, this segment looks at proper use, optimum locations, attributes which are most beneficial and what the drawbacks are on certain models.

8 minutes, order 1-8520

### The OSHA Formaldehyde Standard

Formaldehyde is used in many laboratory operations. This program covers safe work practices, personal protective equipment, spill/clean up procedures, and medical surveillance programs.

This program explains how to monitor the amount of formaldehyde a worker is exposed to, how to properly label formaldehyde products; the proper use, fitting and testing of personal protective equipment as well as what should be done in the event of a spill or contact with the skin or eyes.

13 minutes, order 1-8551

#### Electrical Safety in the Laboratory

Today, laboratories rely on a vast array of electrically powered equipment. To work safely with this equipment employees need to understand electricity and its dangers. Principles of electrical energy, fuses, short circuits, "lock Out/Tag Out", and instrument repair are covered in this program.

Focusing on a variety of protective measures against electrical accidents, this program illustrates the use of grounding methods, stresses the importance of regularly testing all wiring outlets, and explains what immediate steps should be taken in the event of an accident.

11 minutes, order 1-8552

### Laboratory Ergonomics

Many activities in the laboratory can exert stress and strain on muscles and joints, ultimately causing significant injuries. Ergonomic considerations such as working at a bench or hood, using a computer terminal, positioning gas cylinders and safe lifting techniques are addressed in this program.

Customizing work stations to individual workers is the key to ensuring maximum work efficiency and neutral, low stress body positions. This program demonstrates how to adjust work areas and provides stress relieving techniques.

10 minutes, order 1-8553

#### Material Safety Data Sheets

Navigating workers through Material Safety Data Sheets (MSDS), this program explains how to find and use data on hazardous materials and their ingredients, toxicity, reactivity, exposure limits, flammability, health hazards, spill/leak and disposal procedures and storage requirements.

13 minutes, order 1-8561



## Learning Resources

### Laboratory Hoods

A variety of hoods...including those for biohazards, perchloric acids and radioisotopes...protect workers from exposure to dangerous vapours. This program demonstrates how to use and test such hoods and other protective equipment, including sashes, personal wear and filtering systems. Also shown is how to trouble-shoot malfunctions and fires.

12 minutes, order 1-8562

### Preventing Contamination

This program illustrates how fast contaminants can spread and shows workers how important it is to use splash guards, protective wear, correct clean-up and disposal methods, proper ventilation equipment and to pay attention to product labels and Material Safety Data Sheets.

9 minutes, order 1-8563

### Safe Handling of Laboratory Glassware

An ideal storage material, Aglassware is also fragile and thus, can be hazardous. Viewers learn what chemicals react with glass, how to safely join pieces together and loosen them and how to hold, cut, carry, bend, clean and dispose of glass safely.

12 minutes, order 1-8564

### Planning for Laboratory Emergencies

Outlining a plan for events such as chemical spills, fires, injuries, radiation leaks, and natural disasters, this program stresses the importance of having an internal emergency response team and of being prepared to alert others, safely evacuate, use alarms and fire extinguishers and read a MSDS.

14 minutes, order 1-8565

### Handling Compressed Gas Cylinders

Most laboratory gases are kept in pressurized containers. This program outlines the hazards and necessary handling procedures that result from such storage, covering safe storage and transporting, dealing with leaks, proper labelling and required protective gear.

12 minutes, order 1-8566

Adult

135 minutes, order 1-85180-IN

### Handling And Transporting Hazardous Materials

Each day thousands of hazardous materials are produced and transported. This program provides handlers and transporters with the information they need to deliver hazardous materials safely, on time, and in good condition.

In a step by step manner, the program documents nine classes of hazardous materials and covers employee training, how hazardous materials are defined and classified, and what documentation is required.

Stressing the importance of having the proper marking and labelling on all hazardous materials, and of confirming that packaging hasn't been damaged, the program reminds handlers that accepting mislabelled or mispackaged hazardous materials subjects a company to serious fines and penalties.

Adult

27 minutes, order 1-8514-IN

### Respirator Training

Explains responsibilities for personal respiratory protection under adverse or hazardous conditions.

Highlights the uses of different types of air purifying and air supplied respirators, how and why to fit, test, clean, inspect, store, and wear respirators.

Adult

13 minutes, order 4-3021-IN



## Learning Resources

### Safety Training For Handling/transporting Hazardous Material

Common sense is usually enough when handling most of the products and materials that drive our economy. Hazardous materials, however, require special attention because they can pose certain health and safety risks. Because of this, the hazardous materials regulation requires four categories of training for employees who handle dangerous materials. This program deals with the safety training section of the regulation.

Viewers will learn the importance of reviewing Material Safety Data Sheets before moving hazardous materials. They'll also learn how to avoid accidents, use personal protection equipment, what first aid measures to take in the event of an emergency and how to obtain emergency response training and information.

The program instructs workers to refuse delivery on products that are damaged or that don't have the proper shipping papers or labels. It also stresses the importance of checking each vehicle before attempting to transport any product. This program is accompanied by a Presenter's Manual that reviews major points and objectives and includes a post-viewing quiz.

#### Key points

- \* Lists the information and training that all hazardous material suppliers are required to provide to their employees.
- \* Demonstrates the proper use of fire extinguishers, persona; protective equipment and safety showers and eye washes.
- \* Instructs on initial methods for handling spills or leaks.
- \* Explains how to use the Department of Transportation's Emergency Response Book.
- \* Stresses the importance of each individual following the correct procedures for handling hazardous products.

Post Secondary - Advanced, Adult  
14 minutes, order 1-8653-IN

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