MISSION CIT
Critical Immersive Training





OSHA CARE BY MISSIONCIT™

HazCom

OSHA Care Ch 01

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Lessons

1. What is HazCom?
2. Implementing HazCom
3. Training and PPE for EMS Responders
4. Decontamination

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What is HazCom?



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What is the Hazard Communication Standard?

- Aimed to ensure the chemical safety of employees in the workplace
- Labeling and understanding of chemicals
- Mandatory for chemical manufacturers and importers to develop and disseminate information about the use of chemicals in the workplace
- Aligned with GHS





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Who is it For?

- Applicable for any employee or company involved in the manufacture, transport, distribution, and use of hazardous chemicals
- Create and update a written HazCom plan
- Have a chemical inventory list that is current and updated
- Using proper labels and warnings
- Making safety data sheets available
- Providing appropriate training for employees



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General Industry

- Apply to chemicals in the workplace that can cause injuries
- Labels on incoming containers must not be removed or defaced
- Maintain the safety data sheets received with incoming shipments of hazardous chemicals
- Sheets are easily accessible to employees
- Appropriate training
- Applies to chemical mixtures that fall under the Toxic Substances Control Act, food and food additives, distilled spirits, any hazardous substance as defined by the Consumer Product Safety Act



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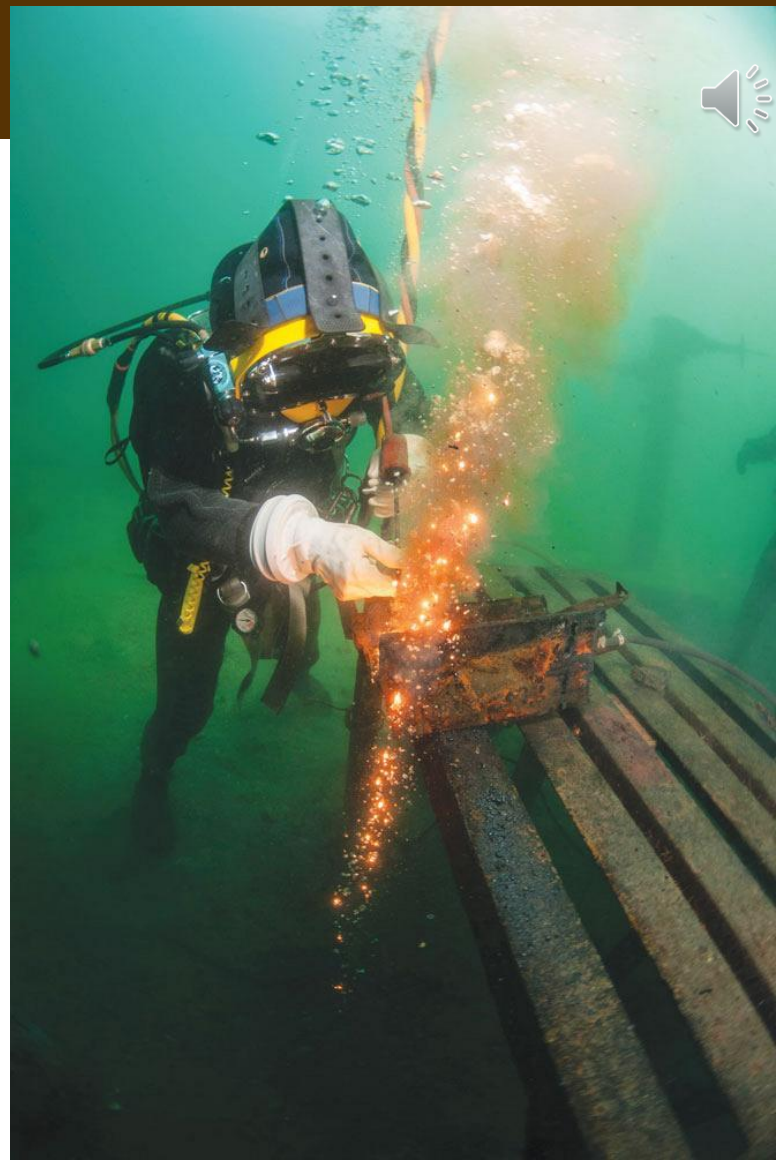
Marine Terminals

- List of chemicals considered hazardous
- Be familiar with HazCom standards
- Identify responsible staff
- Identify hazardous chemicals in the workplace
- Prepare and implement a HazCom program
- Use labels, datasheets, and other forms of warning
- Provide employee information and training

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Longshoring

- Exposure to toxic and hazardous substances such as bloodborne pathogens, carbon monoxide, hydrogen sulfide, Hexavalent chromium, nonionizing radiation, noise, ionizing radiation, and electrical
- Commercial diving operations
- Need respiratory protection



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Implementing HazCom



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Steps for Determining Training

- The employer determines the employees' expected role in a worst-case scenario
- The employer has to do a hazard assessment to identify any anticipated hazards in the normal course of work
- Develops an ERP that details how employees can be prepared to safely prepare their anticipated roles





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Learn the Standards

- Get a copy of OSHA's HazCom
- Be familiar with its different provisions
- Assign primary responsibility for coordinating the implementation
- Identify staff for particular activities like training
- Address all the necessary components and define the workflow

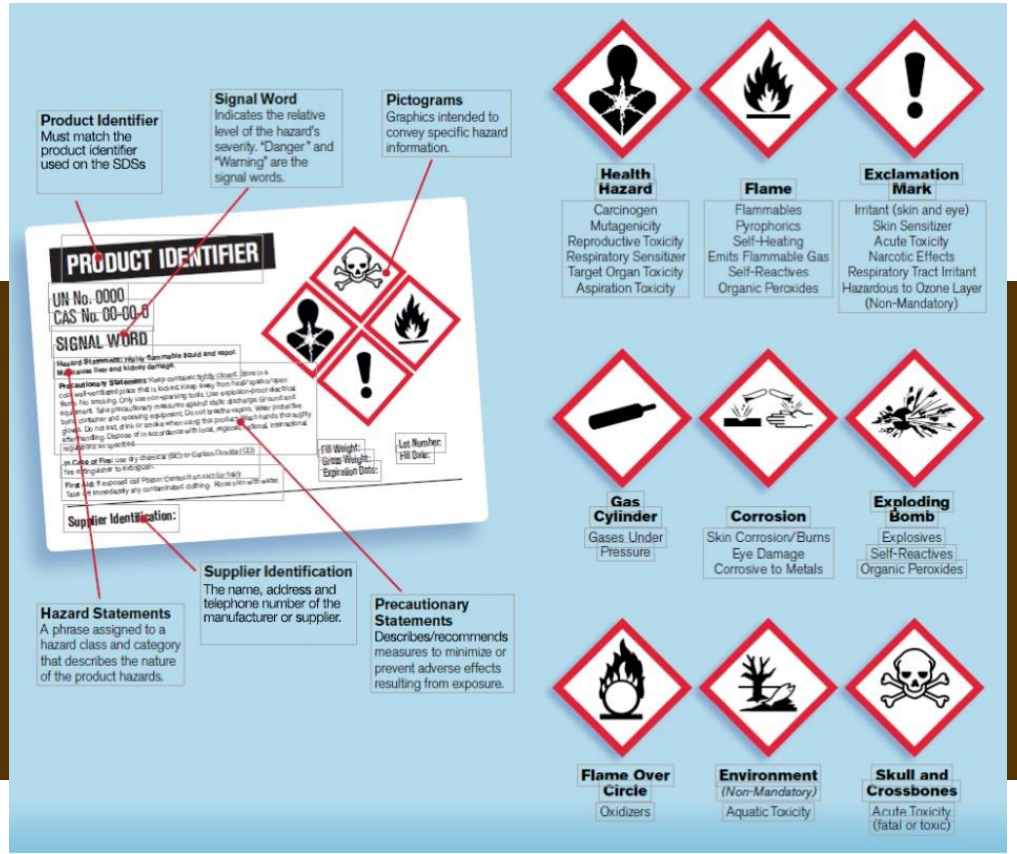


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Implementing a Written HazCom Program

- A written HazCom program
- Contain detailed implementation
- Employer must prepare a list of chemicals
- Use appropriate labels and safety data sheets
- Track its usage



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Labeling

- Chemical manufacturers and importers must provide labels
- Contains product identifier, signal word, pictograms, hazard statements, precautionary statements
- Name, address, and phone number of the responsible party
- Employers must ensure that containers in the workplace are labeled

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Pictograms

- Requires pictograms on labels
- Alert users
- Symbol on a white background
- Represent a distinct hazard
- Based on the chemical hazard classification



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Safety Data Sheets

- Detailed information on a hazardous chemical
- Maintain copies of data sheets
- Readily accessible to employees

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Unknown Acute Toxicity

- Label and SDS must contain unknown acute toxicity as a single or multiple statements
- Mention the route(s)
- Mention it as a percentage. For example, x % of the mixture consists of ingredient of unknown acute oral toxicity





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Inform and Train Employees

- Employers must train employees in a manner and language they understand
- Workers must understand the effect of chemicals in their workplace
- Read labels and SDS
- Aware of protective measures
- Point of contact for issues



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Evaluate and Reassess

- HazCom relevant and current
- Constant evaluation
- Revise as needed



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Training and PPE for EMS Responders



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EMS Responders' Role in Community Response

- Determine the possibility of exposure
- Response to 911 calls
- Cooperation with other first response agencies
- Normal circumstances of operations
- Identifying the possible roles and their associated responsibilities
- Expectations of the community
- Possible hazardous situations



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EMS Hazard Assessment

- Who will be performing decontamination activities?
- Who will remove victims from the hot zone?
- Who will treat victims trapped in a dangerous area?
- Who will transport patients removed from the scene once first responders assess them?
- Who will be available as backup, if needed?



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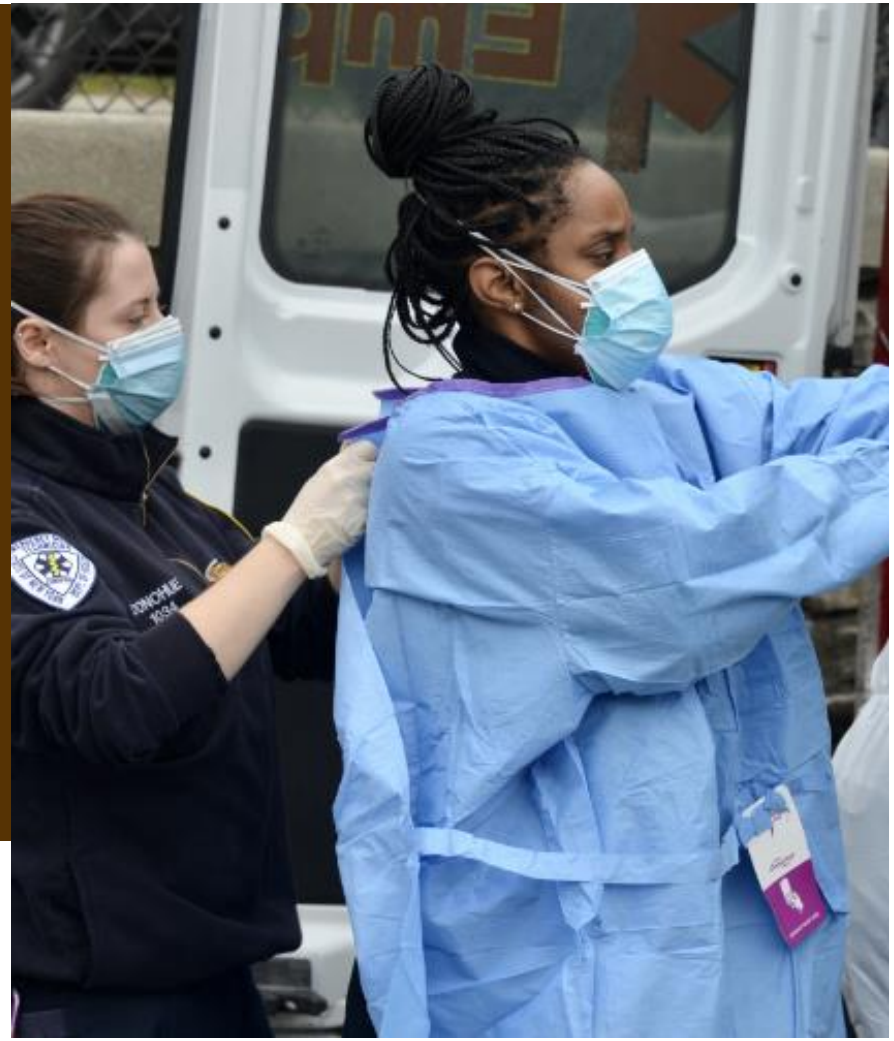


HAZWOPER Training

- HAZWOPER Program protects workers at hazardous sites
- Prepares them to handle emergencies involving hazardous substances
- Requires workers to be trained
- Determine the level and type of training needed
- Train in using PPE and following decontamination procedures



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Demonstrate Competence

- Knowledge of the basic hazard and risk assessment techniques
- Knowledge of selecting and using PPE
- Knowledge of how to perform basic control, containment, and/or confinement operations
- Knowledge of how to implement basic decontamination procedures
- An understanding of the relevant standard operating and termination procedures

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PPE Training

- Recognizing when PPE is necessary
- Identifying what PPE is necessary
- Demonstrating how to properly put on, remove, adjust, and wear PPE
- Understanding the limitations and hazards of PPE
- Understanding the proper care, maintenance, useful life, and disposal of PPE



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Respiratory Protection

- Nature of the respiratory hazard and need for a respirator
- Respirator capabilities, limitations, and consequences
- Handle respirator malfunctions and other emergencies
- Inspect, put on, remove, use and check seals
- Maintain the respirator face/face seal integrity
- Maintenance and storage procedures
- Change cartridges on air-purifying respirators
- Monthly inspections as needed
- Recognize medical signs and symptoms
- General requirements of the respiratory protection program



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Assessing the Need for Respiratory Protection

- Well-defined for specific emergency response
- Levels of protection
- EMS workers must be appropriately equipped





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PPE Selection

- Depend on the working conditions
- Minimum PPE to offer protection
- Evaluate the roles and possible emergencies
- Review best practices



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Wearing Gloves, Boots, and Garments

- Consider the type of substances, the effect of dermal exposure, patient symptoms, and the likely interventions that contaminated patients might require
- Depend on the responder's role
- Depends on the climate and weather conditions



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Decontamination



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Removing Contaminated Clothing

- Removing contaminated clothing reduces contamination by 75 to 90%
- Sealed in double plastic bags
- Community plans provide for it
- Labels are important



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Cleansing with Soap and Water

- Best practice for removing contaminants
- 5 minutes of flushing with water is most recommended
- 1-minute rinsing with tepid water is acceptable
- Avoid stiff brushes and rigorous scrubbing



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Assistance for Patients

- Non-ambulatory patients need help
- EMS responders must limit exposure
- Use blunt-nosed scissors
- Ambulatory patients can remove by themselves
- Decontaminate all patients



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Low-water Situations

- Use decontamination aids
- Targeted application of water
- Bulk absorbents and reactive foam
- Spot decontamination

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Vehicle and Equipment Decontamination

- Prevention is best
- Non-porous materials require same measures as decontamination of skin
- Scrub the equipment
- Discard porous equipment

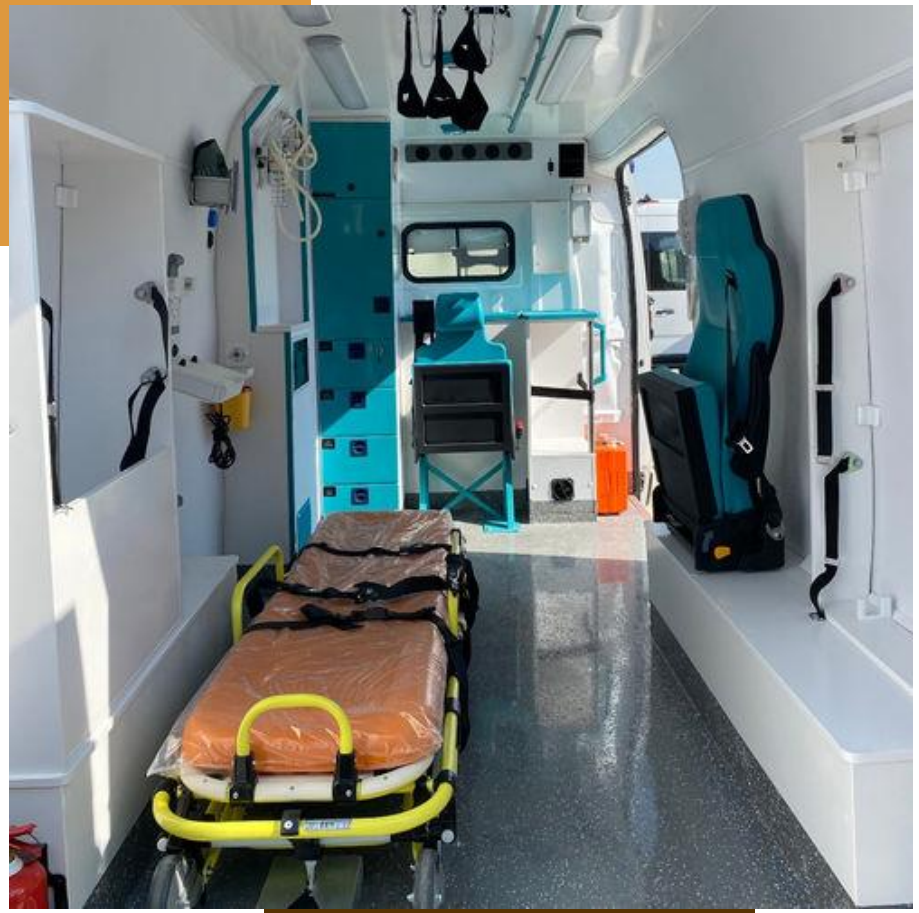




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Contamination Enroute

- Notify the receiving hospital
- Verify that contaminated clothing are removed and sealed in plastic bags with disposable layers
- Ake steps to prevent the spread of contamination
- Alert the incident site
- Treat EMS responders
- Remove the ambulance from service for decontamination



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Chapter Review



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Lesson 1 – What is HazCom?

- HCS from OSHA – Aimed to ensure the chemical safety of employees in the workplace
- Both employer and employees have the right to know about the possible hazards and identities of chemicals they are exposed to
- Should know the resultant precautions they must take to protect themselves
- End-users and employers who handle chemicals have to implement HazCom



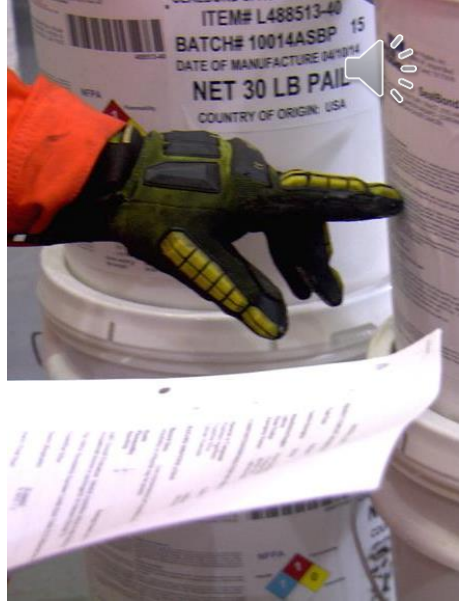
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Lesson 2 – Implementing HazCom

- Training and PPE necessary for preparing workers to handle hazardous chemicals
- Learn HazCom standards
- Implement a written HazCom program
- Employer's responsibility to prepare list of all hazardous chemicals in workplace
- Product identifier, labeling, pictograms and SDS provide information on a particular hazardous material
- Classifiers present unknown acute toxicity information on labels and SDSs
- Maintain current and relevant hazard communication program



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Lesson 3 – Training and PPE for EMS Responders

- HAZWOPER Program protects workers at hazardous sites
- Workers to be trained to perform their job duties without endangering themselves or others
- Training must be provided to each worker who is required to use PPE
- Selection of PPE vary based on the working conditions and responder's role



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Lesson 4 – Decontamination

- Employers should provide information on decontamination practices to all EMS responders
- Removing contaminated clothing can reduce quantity of contaminant associated with victims
- Decontamination with soap and water is the best practice for most contaminants
- Some industrial chemicals can be neutralized, but many may be difficult to remove
- Decontaminate equipment and vehicle as needed

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