

# **CHEMICAL AND BIOHAZARDOUS MATERIAL LABORATORY SAFETY 16 HOUR ONLINE COURSE**



**HAZ-MATTERS**  
EMERGENCY MANAGEMENT INC.

**29CFR 1910.1450**

**29CFR 1910.120**

**CANADIAN BIOSAFETY STANDARD (CBS) SECOND EDITION**



# Why Choose HAZ-MATTERS?



**HAZ-MATTERS**  
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HAZWOPER substantially improves employee hazard understanding at the worksite while empowering an operations level of response competency for employees exposed to any chemical hazards. The course offered by HAZ-MATTERS has roots in the United States model of 29CFR 1910.1450 Laboratory Standard for exposure to hazardous chemicals in the laboratory, and 29CFR 1910.120 (e) & (q) for contaminated waste site management, safety practices and emergency response, but our course has been thoroughly amended and enhanced to reflect universal and globally recognized “Best Practice” techniques and principles

Our course is unlike all the other general laboratory safety and HAZWOPER courses out there – we know that most of our students are getting into much more precarious and unknown situations than the general site worker that traditional courses apply to so we provide knowledge to suit that caliber of employee. Whether you’re a seasoned veteran or new to the industry, we focus on Real-Life hazard understanding that comes from Real-Life hands-on experience that goes far beyond a general employee awareness.

The result is that we provide a 2-day course with clearly defined methods and protocols used by Laboratory Technicians and HazMat Specialists internationally to ensure that personnel operate in the safest possible manner in environments that include:

- ◆ Hazardous materials situations with known and unknown compounds
- ◆ Chemical Laboratories
- ◆ Biological/Biohazardous Laboratories
- ◆ Industrial, Medical and University Laboratories
- ◆ Abandoned and improperly disposed of chemicals

HAZ-MATTERS prides ourselves on our reputation for providing clear understanding to complex and technical information for all levels of experience. It is the cornerstone of our service, and continues to always be our primary goal.

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HAZ-MATTERS doesn't believe that exams and a certificate is what makes the difference to a person – what makes a difference is having the tools that will help you for the rest of your career.

In fact, we believe that memory creates mistakes so we help you learn to use the tools at hand so that you don't have to remember very much at all. We still provide you with some open book tests as we go along to challenge you as well as a final certificate, but most importantly we provide you with the working tools to be able to always start with what we call our Number 1 Rule:

**“IF YOU DON'T KNOW WHAT YOU'RE GETTING INTO, HOW CAN YOU POSSIBLY KNOW HOW TO GET OUT?”**

So we focus on:

- ◆ What Hazardous Materials are, how we need to classify them, what we need to think about in order to approach them, and how to evaluate and simply understand their toxicological effects,
- ◆ How they get into our bodies (routes of exposure), how we protect ourselves at all times from this, and how we use that information to come up with a plan,
- ◆ The four (4) levels of personal protective equipment (PPE) and how we decide what to use,
- ◆ How to evaluate the possibility of a fire hazard and what the Upper and Lower Explosion Limits are as well as some clear fire chemistry concepts,
- ◆ How to confidently determine and acknowledge what our own levels of competency are,
- ◆ Clearly learning the essentials for a NFPA 472 HazMat Technician through testing, identification, and the true understanding of chemical behaviour



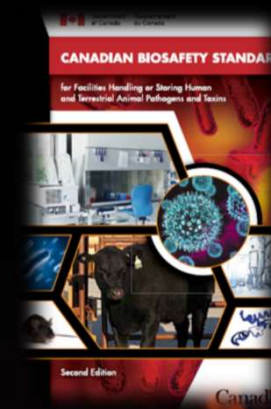
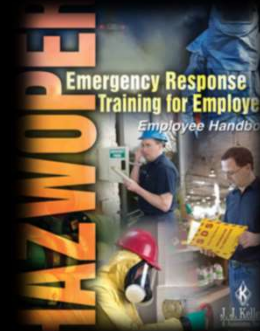
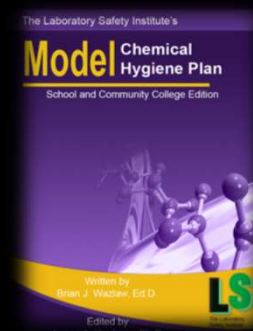
# DAY 1 AGENDA



**HAZ-MATTERS**  
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## LABORATORY SAFETY TRAINING

- § Introduction
- § Regulations
- § Chemistry Fundamentals
- § Hazardous Materials Classification
  - § Transportation of Dangerous Goods Classes
  - § National Fire Protection Association – NFPA 704
  - § US Military Marking Protocols
  - § Biohazardous Materials, Fluids and Sharps
  - § Chemical, Biological, Radiological, Nuclear, Explosives
  - § Controlled Products Regulations – WHMIS 1988
  - § Hazardous Products Regulations - WHMIS 2015
- § Chemical Exposure
- § Medical Monitoring



# DAY 2 AGENDA



**HAZ-MATTERS**  
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## LABORATORY SAFETY TRAINING

- § Bloodborne Pathogen and Chemical Hygiene
- § Fire and Explosion Chemistry
- § Ionizing Radiation
- § Radiation Monitoring Equipment
- § Toxicology
- § NIOSH Pocket Guide
- § Hazardous Waste Management Fundamentals
  - § Lab Packing Categories and Protocols
  - § Bonding and Grounding
  - § Flammable Liquids Transfer
- § Personal Protective Equipment
- § Spill Control

