



NCEC
HAZMAT
ACADEMY

Introduction to Health Hazards

AGENDA

AIMS & OBJECTIVES

INTRODUCTION TO HEALTH HAZARDS

SIGNAGE, LABELLING AND PLACARDING

COMMON OCCURENCES

PROTECTING YOURSELF FROM HEALTH HAZARDS

Aims & Objectives



The aim of this session is to introduce learners to health hazards and to basic protection measures

Objectives

- Identify what health hazards are
- Discuss common substances and materials that have health hazards
- Explore possible protection methods against physical hazards

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What are Health Hazards?

Hazards of a substance, be it chemical, physical or biological that causes a negative effect in the short or long-term to the health of people, animals and the environment.

These include:

Acute health
hazards

Chronic
Health
Hazards

Biological /
viral agents

Ionising
radiation

Sensitising
agents

Asphyxiants

Skin
corrosives /
irritants

Aspiration
hazards

Target organ
toxicity – single /
repeated
exposures

Health Hazards – routes of exposure



Ingestion



Absorption

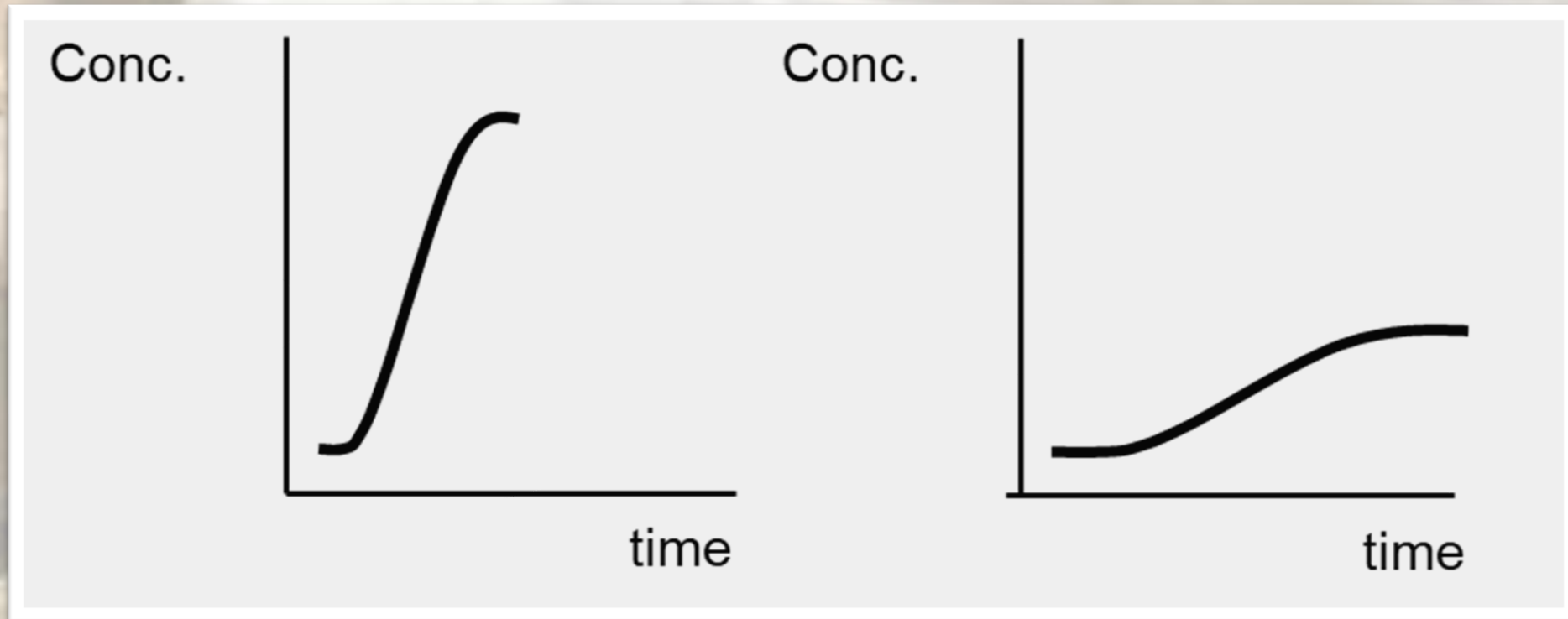


Injection



Inhalation

Acute vs Chronic



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Signage, labelling & placarding

ADR / UN Classes



GHS



Toxic



Environmental
Hazard



Respiratory Sensitizer
Carcinogen
Aspiration Hazard
Mutagenic
Reproductive Toxin



Harmful
Skin Sensitiser



Skin Corrosive

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Common examples

- Alcohols
- Metal containing chemicals
- Products of combustion
- Cleaning products – accidental or deliberate mixing
- Cyanides
- Sewage / slurry gases – Hydrogen Sulphide
- Pesticides
- Fungicides – Paint (animals)
- Palytoxins
- Agricultural incidents
- Mercury
- Carbon Monoxide

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Dealing with Health Hazards

Manage
exposure routes

Isolation &
Cordons

PPE (technical
specifications)

Contamination /
Decontamination

Public /
Unprotected
responders

Environmental
exposure



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Any Questions?