



Module 4:

Common risk controls



















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Module objectives

At the end of Module 4: Common risk controls, you will be able to:



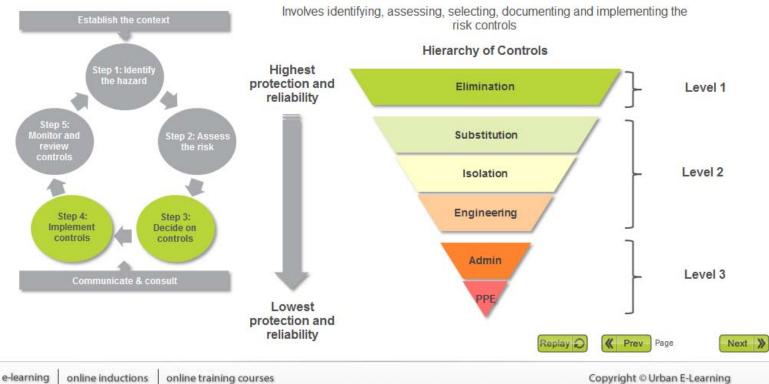
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Step 3: Treat risks - Refresher



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What does the Hierarchy of Controls mean?

Hierarchy of Cor	ntrols
Level 1: Always ai	m to eliminate the risk
Elimination	Involves removing the risk altogether
	reasonably practicable to eliminate the hazards and associated risks, you should minimise the risks using one owing approaches
Substitution	Involves substituting the hazard with a hazard that has a lower risk
Isolation	Involves separating the hazard from the person at risk
Engineering	Involves applying mechanical devices or processes
Level 3: Should or	nly be used as a last resort, an interim measure or to support a higher level control
Administration	Involves minimising the risk by administrative means, such as procedures and training. It is not recommended to use this control on its own as it relies on human behaviour and supervision.
PPE	Involves using Personal Protective Equipment. While this option can provide added protection, it is considered the least effective control method.



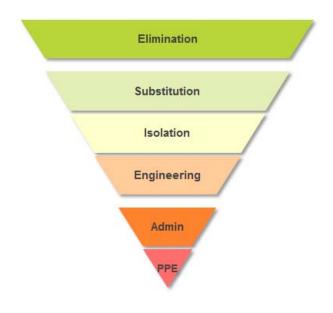








Click on each level of the Hierarchy of Controls below to find out more.







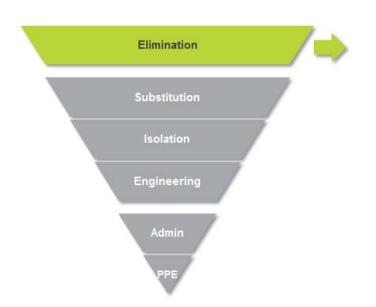
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Click on each level of the Hierarchy of Controls below to find out more.



Dangerous goods and hazardous substances are only used if necessary for the specific task or purpose

All unnecessary substances are removed immediately from site and disposed of in line with the disposal considerations in the Safety Data Sheet



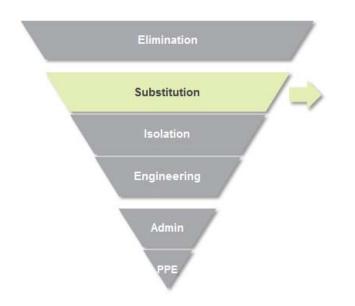








Click on each level of the Hierarchy of Controls below to find out more.



Wherever possible, a safer material is used as a substitute For example:

Swapping a toxic cleaning chemical for a non-toxic alternative that still achieves the same result













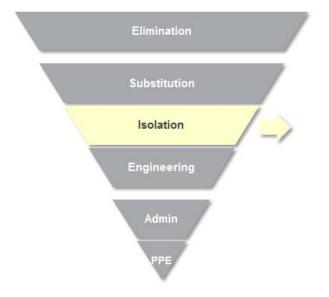
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Click on each level of the Hierarchy of Controls below to find out more.



Use a range of isolation measures to minimise the risks of unauthorised or accidental interaction with dangerous goods and substances

Sites may use fences and secure areas where entry requires a key or electronic pass



Some areas will be designated as 'no ignition source' areas to isolate potentially combustible or flammable solids, liquids and gases











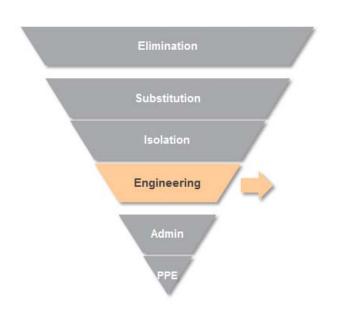
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Click on each level of the Hierarchy of Controls below to find out more.





Include storing the materials on spill pallets or in bunded rooms or areas

Bunding is used primarily for spill management and minimises the risk of spilled materials spreading outside the containment zone or entering the environment through drains, waterways, soil etc.







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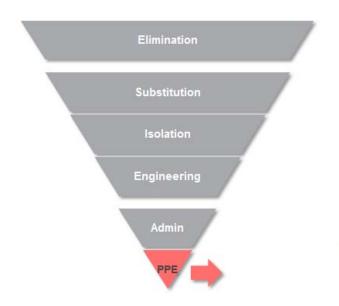
Click on each level of the Hierarchy of Controls below to find out more.







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Worn to reduce exposure to a hazard but does not eliminate it

Must be used correctly, be properly maintained, and the worker must be trained on how to use it correctly







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How do I locate and read an SDS?

Document prepared by the manufacturer or supplier of a hazardous substance that describes its properties and uses

A legal requirement under WHS law

Everyone in the workplace should know how to locate, read and interpret an SDS

SDS register will be available on site containing the SDS for each hazardous substance used

- 1. Identification of the material/supplier
- 2. Hazard identification
- 3. Composition/information on ingredients
- 4. First aid measures
- 5. Fire fighting measures

- 6. Accidental release measures
- 7. Handling and storage
- 8. Exposure controls and PPE
- 9. Physical and chemical properties
- 10. Stability and reactivity

- 11. Toxicology information
- 12. Ecological information
- 13. Disposal considerations
- 14. Transport information
- 15. Regulatory information
- 16. Other information













What are the common safety signs?

You **must** follow the requirements of **all safety signs**They are there for **your safety** and give you crucial **information** and **warnings**

Mandatory signs

Tell you what you must do

White with a blue circle containing an image



Danger signs

Warn of potentially life **threatening** hazards

Black and white with a red oval



Hazard warning signs

Identify hazards which may not be life threatening but could cause harm

Yellow and black



Prohibition signs

Tell you what you must not do

White with a red circle with a line through it



Emergency/safety information

Provide emergency or safety information

Green and white



Fire signs

Provide **fire** emergency information

Red and white:









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What information must be on a chemical substance label?

Read label before use. Keep out of reach of children

Flammosol

FLAMMABLE LIQUID, TOXIC N.O.S.

(aliphatic hydrocarbons, toxicole)

UN 1992



IF ON SKIN (or hair): Take off contaminated clothing and wash before re-use. Rinse skin using plenty of soap and water.

If skin Irritation occurs: Get medical advice/attention. IF SWALLOWED: immediately call a POISON CENTRE or doctoriphysician. Rinse mouth.

Store locked up in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with

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DANGER

Highly flammable liquid and vapour Toxic if swallowed Causes skin irritation

in case of fire: Use powder for extinction.

Keep away from sparks and open flames. - No keep container tightly closed.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge. Wear protective gloves and eye and face protection.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

supplier

Valid website

Reference to SDS

(Example for illustrative purposes)





Additional information:

Emergency phone number

Overseas name, address and

phone number of manufacturer/



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Labelling of Workplace

Hazardous Chemicals Code

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Is it different for a decanted chemical?



(Example for illustrative purposes)











Depending on how you interact with the substances, you may be required to wear additional PPE to the below. Click on each type of PPE to find out more.



















Depending on how you interact with the substances, you may be required to wear additional PPE to the below. Click on each type of PPE to find out more.











Protects the eyes from flying particles, chemicals, liquids and UV radiation



Worn at all times while on site within designated areas



Comfortable



Not interfere with your vision



Provide appropriate protection against the hazard













Depending on how you interact with the substances, you may be required to wear additional PPE to the below. Click on each type of PPE to find out more.











Used to protect your hands from hazards such as burns and chemicals



Select the glove that is most appropriate for your task



Inspect your gloves for any damage before using them



Discard them if they are damaged or contaminated



Store gloves in a clean, dry location





Be careful when removing damaged or contaminated gloves to ensure the substance does not come into contact with your skin.











Depending on how you interact with the substances, you may be required to wear additional PPE to the below. Click on each type of PPE to find out more.











Protect your toes and feet from being burnt or scalded by corrosive substances



Appropriate for your task and conditions



Fits your foot snugly



Well maintained













Depending on how you interact with the substances, you may be required to wear additional PPE to the below. Click on each type of PPE to find out more.











Protects your body against exposure to hazardous substances



Must be well-fitting



Suitable for the substances you are handling













Depending on how you interact with the substances, you may be required to wear additional PPE to the below. Click on each type of PPE to find out more.











Protect you against:

Oxygen deficient environments



Airborne contaminants

Common examples:

Dust masks

Half masks

Full masks

Self-contained breathing apparatus



If you are required to use self-contained breathing apparatus, you will need specific training.







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Module Summary



You should now be able to:

Summarise the common risk controls

Interpret information on safety signs, Safety Data Sheets and chemical substance labels

Explain how different PPE can protect you from hazardous substances

You can now return to the home page and move on to the next module which will look at **incident and emergency** response procedures.

Module 1: Introduction and overview of the legislation

Module 2: Types of dangerous goods and hazardous substances Module 3: CCA's risk management approach

Module 4: Common risk controls at CCA Module 5: Incident and emergency response procedures

Module 5: Course summary







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