



National
Operational
Guidance

Hazard

Release or spill of corrosive material



NFCC
National Fire
Chiefs Council

Developed and maintained by the NFCC



Contents

Hazard - Release or spill of corrosive material	3
<i>Control measure - Substance identification: Corrosive materials</i>	3
<i>Control measure - Cordon controls: Corrosive materials</i>	4
<i>Control measure - Containment: Corrosive materials</i>	5
<i>Control measure - Treatment: Corrosive materials</i>	6
<i>Control measure - Dilution: Corrosive materials</i>	7



Hazard - Release or spill of corrosive material

Knowledge and understanding

Hazard	Learning outcome
Release or spill of corrosive material	Understand all associated hazard knowledge



Control measure - Substance identification: Corrosive materials

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Gather information and recognise symbols, labels and other marking to identify corrosive materials	Understand: <ul style="list-style-type: none">• Classification and labelling of corrosive materials• Signage identifying the presence of corrosive materials• Procedures for Litmus and pH scale testing of corrosive materials• Considerations when observing/monitoring for signs of corrosion Refer to – Substance identification – Hazardous materials training specification

Practical application



Control measure element

Learning outcome

Gather information and recognise symbols, labels and other marking to identify corrosive materials

Demonstrate the ability to:

- Use signs, labels and markings to identify the presence of corrosive materials
 - Identify and interpret corrosive material incident information and where appropriate use detection equipment
 - Use specialist advice to identify corrosive materials information
 - Assess the risk of fire from corrosive materials
- Refer to – Substance identification – Hazardous materials training specification



Control measure - Cordon controls: Corrosive materials

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element

Learning outcome

Recognise the involvement of corrosive materials and implement appropriate cordons

Understand:

- Protection of personnel and public by effective and proportionate:
 - Cordons
 - Respiratory protection (RPE)
 - Chemical protective clothing (CPC)

Refer to – [Cordon controls – operations training specification](#)

Practical application



Control measure element

Learning outcome

Recognise the involvement of corrosive materials and implement appropriate cordons

Demonstrate the ability to:

- Establish safe control and effective management of resources and the public
- Implement cordons based on:
 - Quantity
 - Location
 - Physical state
- Establish contingency arrangements for contamination assessment and decontamination
- Apply health surveillance procedures to monitor exposed responders

Refer to – [Cordon controls – operations training specification](#)



Control measure - Containment: Corrosive materials

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element

Learning outcome

Contain corrosive materials

Understand:

- The four principal ways of dealing with spills or release of corrosives
- The potential additional hazards from a reaction of corrosive materials and containment material

Refer to – [Containment – Environmental training specification](#)



Practical application

Control measure element

Learning outcome

Contain corrosive materials

Demonstrate the ability to:

- Assess the impact of a corrosive substance release
- Liaise with a specialist adviser to determine suitable methods of containment
- Apply effective techniques to contain corrosive substances
- Reduce vapourisation by appropriate means
- Effectively manage the mixing of corrosive materials, containment systems and water

Refer to – [Containment – Environmental training specification](#)



Control measure - Treatment: Corrosive materials

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element

Learning outcome

Treat corrosive materials

Understand:

- Neutralisation of a spill
- The adverse effects and potential hazards of neutral 'Salt'
- Biodegradability of neutralised spills
- Liaison protocols with environmental agencies to consult on neutralisation tactics

Practical application



Control measure element

Learning outcome

Treat corrosive materials

Demonstrate the ability to:

- Access specialist advice to inform decision making
- Apply safe and effective methods of neutralisation



Control measure - Dilution: Corrosive materials

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element

Learning outcome

Dilute corrosive materials

Understand:

- The process and potential hazards when diluting corrosive materials, as a last resort
- The criteria for consideration prior to dilution
- The general rule for dilution
- The potential environmental impact of diluting corrosive materials
- The limitations of diluting corrosive materials as a tactic

Refer to – [Dilution – Environmental training specification](#)

Practical application

Control measure element

Learning outcome

Dilute corrosive materials

Demonstrate the ability to:

- Confirm the suitability of corrosive materials for dilution
- Apply safe and effective methods of dilution

Refer to – [Dilution – Environmental training specification](#)