



National
Operational
Guidance

Hazard

Release or spill of corrosive material



NFCC
National Fire
Chiefs Council

Developed and maintained by the NFCC



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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 | <p>Demonstrate the ability to:</p> <ul style="list-style-type: none"> • Assess the impact of a corrosive substance release • Liaise with a specialist adviser to determine suitable methods of containment <ul style="list-style-type: none"> • Apply effective techniques to contain corrosive substances • Reduce vapourisation by appropriate means • Effectively manage the mixing of corrosive materials, containment systems and water <p>Refer to – Containment – Environmental training specification</p> |
|-----------------------------|--|



Control measure - Treatment: Corrosive materials

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element

Learning outcome

| | |
|---------------------------|---|
| Treat corrosive materials | <p>Understand:</p> <ul style="list-style-type: none"> • 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](#)