



National  
Operational  
Guidance

# Section

## On-Site Machinery



**NFCC**  
Fire Central  
Programme Office

Developed and maintained by the NFCC

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## Hazard - On-Site Machinery

### Knowledge and understanding

#### Hazard

On-Site Machinery

#### Learning outcome

Understand all associated hazard knowledge



## Control measure - Restrict or prohibit movement of on-site machinery

### TRAINING SPECIFICATION

### Knowledge and understanding

#### Control measure element

Restrict or prohibit movement of on-site machinery

#### Learning outcome

Understand:

- Why it may be necessary to restrict or prohibit the movement of on-site machinery
- The considerations when attending incidents involving on-site machinery

### Practical application

#### Control measure element

Restrict or prohibit movement of on-site machinery

#### Learning outcome

Demonstrate the ability to:

- Request that the movement of on-site machinery is restricted or prohibited
- Communicate with on-site personnel to share information about hazards, operational activity and presence of personnel



## Control measure - Isolate power supplies for on-site machinery

### TRAINING SPECIFICATION

#### Knowledge and understanding

##### Control measure element

Isolate power supplies to reduce risk of injury or damage to equipment from on-site machinery

##### Learning outcome

Understand:

- The use of on-site machinery prior to isolating or locking out
- The potential implications and risks associated with isolating or locking out on-site machinery
- The types of power supplies to on-site machinery
- Where and how to isolate on-site machinery
- The available on-site control measures when machinery has been isolated
- The built-in safety design features associated with on-site machinery
- The potential benefits or risks associated with maintaining live industrial processes during firefighting operations

#### Practical application



**Control measure element**

**Learning outcome**

Isolate power supplies to reduce risk of injury or damage to equipment from on-site machinery

Demonstrate the ability to:

- Work with on-site or specialist personnel to isolate power supplies to on-site machinery
- Determine the impact on business continuity when isolating power to on-site machinery
- Use safe systems of work when operating at incidents involving on-site machinery



## Control measure - Establish appropriate cordon controls

### TRAINING SPECIFICATION

#### Level 1

#### Knowledge and understanding

**Control measure element**

**Learning outcome**

Cordons

Understand:

- Why cordons are used at incidents and the agencies responsible for their implementation

Inner cordon

Understand:

- The use of inner cordons and gateway controls

Outer cordon

Understand:

- The use of outer cordons

#### Practical application



**Tactical action**

**Learning outcome**

Ensure that appropriate inner and outer cordons are established, identified and communicated following an assessment of risk to crews, other agencies and the public

Control access to the inner cordon using methods proportionate to the size and complexity of the incident

Implement exclusion zones where intolerable risks to safety are identified

Request the police to establish a traffic cordon where necessary

Demonstrate the ability to:

- Develop and communicate appropriate gateway control systems

Demonstrate the ability to:

- Identify significant risk areas and develop and communicate appropriate exclusion zones to minimise risk

**Level 2**

**Knowledge and understanding**

**Control measure element**

**Learning outcome**

Cordons	Understand: <ul style="list-style-type: none"> <li>• Why cordons are used at incidents and agencies responsible for their implementation</li> </ul>
Inner cordon	Understand: <ul style="list-style-type: none"> <li>• The use of inner cordons and gateway controls</li> </ul>
Outer cordon	Understand: <ul style="list-style-type: none"> <li>• The use of outer cordons</li> </ul>

**Practical application**



**Tactical action**

**Learning outcome**

Ensure that appropriate inner and outer cordons are established, identified and communicated following an assessment of risk to crews, other agencies and the public

Control access to the inner cordon using methods proportionate to the size and complexity of the incident

Implement exclusion zones where intolerable risks to safety are identified

Request the police to establish a traffic cordon where necessary

Demonstrate the ability to:

- Develop and communicate appropriate gateway control systems

Demonstrate the ability to:

- Identify significant risk areas and develop and communicate appropriate exclusion zones to minimise risk



## Control measure - Incident ground safety management

### TRAINING SPECIFICATION

#### Level 1

#### Knowledge and understanding

**Control measure element**

**Learning outcome**

Safety organisation on the incident ground including risk information

Understand:

- The safety responsibilities which can be undertaken through command support



**Control measure element**

**Learning outcome**

Safety briefings	Understand: <ul style="list-style-type: none"> <li>• The need for safety briefings and their content</li> </ul>
Safety officer	Understand: <ul style="list-style-type: none"> <li>• The responsibilities of the safety sector commander role</li> <li>• The responsibilities of the safety officer</li> </ul>
Safety in sectors	Understand: <ul style="list-style-type: none"> <li>• The management of safety in sectors</li> </ul>
Safety at multi-agency incidents	Understand: <ul style="list-style-type: none"> <li>• The means to acquire and communicate risk information via other agencies</li> </ul>
Provision of risk information	Understand: <ul style="list-style-type: none"> <li>• The relevant sources of risk information</li> </ul>

**Practical application**

**Tactical action**

**Learning outcome**

Ensure that everyone on the incident ground is fully briefed on the current hazards, specific risks and control measures including other agencies and organisations	Demonstrate the ability to: <ul style="list-style-type: none"> <li>• Confirm risks and implications for personnel and the community</li> <li>• Perform and/or arrange for safety briefings to all personnel on the incident ground</li> </ul>
Appoint suitably competent safety officers to observe specific hazards and/or activities or monitor risks to personnel at the incident	Demonstrate the ability to: <ul style="list-style-type: none"> <li>• Identify the need for, appoint and brief suitably competent safety officers</li> </ul>





**Tactical action**

**Learning outcome**

Establish and communicate the emergency evacuation and tactical withdrawal plan to everyone on the incident ground

Demonstrate the ability to:  
• Develop emergency evacuation and tactical withdrawal plans and communicate them to all personnel and attending agencies

Inform everyone at an incident of the location of the muster point

Demonstrate the ability to:  
• Clearly define and communicate the location of the muster point

ARCHIVED Ensure there has been a roll call of fire service and all other personnel at the scene following an emergency evacuation

**Level 2**

**Knowledge and understanding**

**Control measure element**

**Learning outcome**

Safety organisation on the incident ground including risk information

Understand:  
• The safety responsibilities, which can be undertaken through command support

Safety briefings

Understand:  
• The need for safety briefings and their content

Safety officer

Understand:  
• The responsibilities of the safety sector commander role  
• The responsibilities of the safety officer

Safety within sectors

Understand:  
• The management of safety in sectors



**Control measure element**

**Learning outcome**

Safety at multi-agency incidents	Understand: <ul style="list-style-type: none"> <li>• The means to acquire and communicate risk information via other agencies</li> </ul>
Provision of risk information	Understand: <ul style="list-style-type: none"> <li>• The relevant sources of risk information</li> </ul>

**Practical application**

**Tactical action**

**Learning outcome**

Ensure that everyone on the incident ground is fully briefed on the current hazards, specific risks and control measures including other agencies and organisations	Demonstrate the ability to: <ul style="list-style-type: none"> <li>• Confirm risks and implications for personnel and the community</li> <li>• Perform and/or arrange for safety briefings to all personnel on the incident ground</li> </ul>
Appoint suitably competent safety officers to observe specific hazards and/or activities or monitor risks to personnel at the incident	Demonstrate the ability to: <ul style="list-style-type: none"> <li>• Identify the need for, appoint and brief suitably competent safety officers</li> </ul>
Instigate a safety sector at large or complex incidents under the control of a safety sector commander	Demonstrate the ability to: <ul style="list-style-type: none"> <li>• Identify the need for and develop a safety sector as part of the command structure</li> </ul>
Establish and communicate the emergency evacuation and tactical withdrawal plan to everyone on the incident ground	Demonstrate the ability to: <ul style="list-style-type: none"> <li>• Develop emergency evacuation and tactical withdrawal plans and communicate them to all personnel and attending agencies</li> </ul>
Inform everyone at an incident of the location of the muster point	Demonstrate the ability to: <ul style="list-style-type: none"> <li>• Clearly define and communicate the location of the muster point</li> </ul>



**Tactical action**

**Learning outcome**

ARCHIVED Ensure there has been a roll call of fire service and all other personnel at the scene following an emergency evacuation



## Control measure - Use competent people to operate on-site machinery

### TRAINING SPECIFICATION

#### Knowledge and understanding

**Control measure element**

**Learning outcome**

Use competent people to operate on-site machinery

- Understand:
- Why competent people should be used to operate on-site machinery
  - The information that a competent person may need to safely operate on-site machinery during an incident

#### Practical application

**Control measure element**

**Learning outcome**

Use competent people to operate on-site machinery

- Demonstrate the ability to:
- Liaise with competent people to operate on-site machinery
  - Provide a safety brief to competent people who are being asked to operate on-site machinery and personnel
  - Communicate with competent people operating on-site machinery



## Control measure - Supervise on-site staff operating machinery in the hazard area

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### TRAINING SPECIFICATION

#### Knowledge and understanding

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Control measure element	Learning outcome
Supervise on-site staff operating machinery in the hazard area	Understand: <ul style="list-style-type: none"><li>Why on-site staff may need additional supervision in the hazard area</li></ul>



#### Practical application

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Control measure element	Learning outcome
Supervise on-site staff operating machinery in the hazard area	Demonstrate the ability to: <ul style="list-style-type: none"><li>Supervise on-site staff in the hazard area</li><li>Provide detailed briefings and monitor activity</li></ul>