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All Transport



Hazard - Transport incidents

Knowledge and understanding

Hazard	Learning outcome
Transport incidents	Understand all associated hazard knowledge



Control measure - Site-Specific Risk Information (SSRI): Transport

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Produce Site-Specific Risk Information (SSRI) and emergency response plans	Understand: <ul style="list-style-type: none">• The considerations when developing Site-Specific Risk Information for transport systems Refer to Site Specific Risk Information – Operations training specification

Practical application

Control measure element	Learning outcome
Use of Site-Specific Risk Information (SSRI)	Demonstrate the ability to: <ul style="list-style-type: none"> • Access and review SSRI to inform a safe and effective tactical plan Refer to Site Specific Risk Information – Operations training specification



Control measure - Emergency response plans: Transport

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Emergency response plans: Transport	Understand: <ul style="list-style-type: none"> • The purpose of pre-planning for all types of transport incidents • The information that may be included in emergency response plans for all types of transport incidents: <ul style="list-style-type: none"> - Air - Rail - Road - Waterways Refer to Emergency response plans – Operations training specification

Practical application

Control measure element	Learning outcome
Emergency response plans: Transport	Demonstrate the ability to: <ul style="list-style-type: none"> • Identify, access and use emergency response plans in the transport environment Refer to Emergency response plans – Operations training specification



Control measure - Make a safe and controlled approach to the incident

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Make a safe and controlled approach to the incident	Understand: <ul style="list-style-type: none"> • The considerations for safe and effective access to transport incidents • The hazards associated with approaching incidents involving transport systems • When rendezvous points (RVPs) or strategic holding areas may be required • The legislation relating to displaying appropriate warning beacons at incidents • The equipment used to display appropriate warning beacons • How to interpret location markers for different incident types

Practical application

Control measure element	Learning outcome
Make a safe and controlled approach to the incident	Demonstrate the ability to: <ul style="list-style-type: none"> • Identify suitable access routes and RVPs using SSRI • Communicate incident access point(s) and RVP information to other emergency responders



Control measure - Situational awareness: Transport

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Situational awareness: Transport	Understand: <ul style="list-style-type: none"> • How the size of the scene and physical geography may affect how a scene survey is completed • Alternative methods of scene survey • The range of information sources that may be available at each type of transport incident • How to gather information from available sources • The considerations when gathering information • How to access and use vehicle data system information Refer to Situational awareness – Incident command training specification

Practical application

Control measure element	Learning outcome
Situational awareness: Transport	Demonstrate the ability to: <ul style="list-style-type: none"> • Identify and gather information from a range of sources to gain accurate situational awareness • Communicate appropriate information to the relevant people/agency Refer to Situational awareness – Incident command training specification



Control measure - Use tactical advisers and responsible person

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Use tactical advisers and responsible person	Understand: <ul style="list-style-type: none"> • The importance of gathering information from the appropriate person/authority • How to evaluate the accurate and relevant information a responsible person or agency may provide at a transport incident • The role of tactical advisers and/or responsible person at each type of transport incident • The role of other agencies and associated attending officers at incidents Refer to Specialist advice – Incident command training specification

Practical application

Control measure element	Learning outcome
Use tactical advisers and responsible person	Demonstrate the ability to: <ul style="list-style-type: none"> • Liaise with responsible persons' to develop an operational plan • Request and liaise with a tactical adviser relative to the mode of transport involved Refer to Specialist advice – Incident command training specification



Control measure - Establish appropriate cordons: Transport

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Establish appropriate cordons: Transport	Understand: <ul style="list-style-type: none"> • Cordon size may be set by the incident, the mode of transport or its cargo • The considerations when establishing cordons at each type of transport incident Refer to Establish appropriate cordon controls – Incident command training specification

Practical application

Control measure element	Learning outcome
Establish appropriate cordons: Transport	Demonstrate the ability to: <ul style="list-style-type: none"> • Establish and monitor cordons, appropriate to the mode of transport • Restrict, record and manage access/egress to scene of operations Refer to Establish appropriate cordon controls – Incident command training specification



Control measure - Ensure effective multi-agency working

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Ensure effective multi-agency working	Understand: <ul style="list-style-type: none"> • The principles of joint working in the multi-agency environment • The need to establish effective communications with other agencies • Methods of sharing information with other agencies Refer to Clearly defined command roles and responsibilities incorporating multi-agency arrangements – Incident command training specification

Practical application

Control measure element	Learning outcome
Ensure effective multi agency working	Refer to Clearly defined command roles and responsibilities incorporating multi-agency arrangements – Incident command training specification



Hazard - Unstable mode of transport

Knowledge and understanding

Hazard	Learning outcome
Unstable mode of transport	Understand all associated hazard knowledge



Control measure - Assess stability

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Assess stability	Understand: <ul style="list-style-type: none">• How to assess the stability of a craft or vehicle• How insecure loads and affected infrastructure affect stability• How operational activity affects stability of a craft/vehicle

Practical application

Control measure element	Learning outcome
Assess stability	Demonstrate the ability to: <ul style="list-style-type: none"> • Identify and assess the stability of craft or vehicles and affected infrastructure • Establish appropriate cordons considering how an unstable vehicle may move • Communicate hazard and risk information to emergency responders



Control measure - Manage pressurised air systems

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Manage pressurised air systems	Understand: <ul style="list-style-type: none"> • How pneumatic systems may impact the stability of a craft or vehicle • The hazards posed by pneumatic systems on crafts/vehicles • How to identify mechanical interlocks and safety systems on crafts/vehicles • How mechanical interlocks and built in safety systems can be used to assist scene safety

Practical application

Control measure element	Learning outcome
Manage pressurised air systems	Demonstrate the ability to: <ul style="list-style-type: none"> • Identify pressurised air systems and assess their integrity • Gather information regarding the operation and isolation of pressurised air systems • Communicate the hazards of pressurised air systems to relevant people • Establish appropriate cordons where there is risk relating to pressurised air systems



Control measure - Stabilise the mode of transport

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Stabilise the mode of transport	Understand: <ul style="list-style-type: none"> • Appropriate stabilisation techniques for different craft or vehicles • When specialist knowledge or resources are required to stabilise craft/vehicles • The properties of a good stabilisation method • Why stabilisation should be checked regularly See www.ukro.org/education/ukro-workshops/lgv-rescues/

Practical application

Control measure element	Learning outcome
Stabilise the mode of transport	Demonstrate the ability to: <ul style="list-style-type: none"> • Apply the properties of a good stabilisation method • Identify and request the resources required to implement an effective stabilisation plan • Monitor and assess the stability of a vehicle or craft



Hazard - Fuel and electrical systems

Knowledge and understanding

Hazard	Learning outcome
Fuel and electrical systems	Understand all associated hazard knowledge



Control measure - Identify and isolate electrical systems

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Identify and isolate electrical systems	Understand: <ul style="list-style-type: none"> • The power sources used in crafts/vehicles • The primary functions of craft or vehicle electrical systems • Where electricity isolation switches may be located • How electrical systems can be shut down and isolated safely • Who should isolate electrical systems • The need to document decisions taken to isolate electrical systems

Practical application

Control measure element	Learning outcome
Identify and isolate electrical systems	Demonstrate the ability to: <ul style="list-style-type: none"> • Identify the location of electricity isolation points on craft or vehicles • Assess the risk associated with shutting down electrical systems in crafts/vehicles • Isolate electrical systems when appropriate • Inform relevant people of risks where electrical systems have not been shut down



Control measure - Identify and isolate fuel systems

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Identify and isolate fuel systems	Understand: <ul style="list-style-type: none"> • Where fuel isolation switches may be located • How fuel isolation switches can be activated on craft or vehicles • Who should isolate fuel systems on craft or vehicles • How to identify a craft or vehicle fuel type

Practical application

Control measure element	Learning outcome
Identify and isolate fuel systems	Demonstrate the ability to: <ul style="list-style-type: none"> • Identify the type of fuel being used in a craft or vehicle • Isolate fuel via shut off valves • Control ignition sources • Record any movement of controls for accident investigation purposes



**Hazard -
Construction materials: Transport**

Knowledge and understanding

Hazard	Learning outcome
Construction materials: Transport	Understand all associated hazard knowledge



**Control measure -
Identify and communicate vehicle
or craft construction materials**

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Communicate vehicle/craft construction materials to relevant people	Understand: <ul style="list-style-type: none">• How to identify the material used in craft or vehicle construction• The methods used to communicate hazard information to relevant personnel

Practical application

Control measure element	Learning outcome
Communicate vehicle/craft construction materials to relevant people	Demonstrate the ability to: <ul style="list-style-type: none">• Use a range of information sources to identify the materials used in craft or vehicles involved in incidents• Communicate relevant design and construction information to other emergency responders



Control measure - Avoid manipulation or damage to composite materials

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Avoid manipulation or damage to composite materials	Understand: <ul style="list-style-type: none"> • The dangers associated with materials containing damaged composite materials • Safe systems of work that can be employed to mitigate the effects of damaged composite materials

Practical application

Control measure element	Learning outcome
Avoid manipulation or damage to composite materials	Demonstrate the ability to: <ul style="list-style-type: none"> • Develop and communicate a tactical plan that minimises the level of risk from composite materials • Establish safe systems of work in the vicinity of composite materials



Control measure - Apply fine water spray or foam

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Apply fine water spray or foam	Understand: <ul style="list-style-type: none"> • The benefits of applying fine water spray or foam where composite materials on craft or vehicles are badly damaged • Methods of applying fine water spray or foam Refer to Fires and firefighting training specification Refer to Environmental Protection training specification

Practical application

Control measure element	Learning outcome
Apply fine water spray or foam	Demonstrate the ability to: <ul style="list-style-type: none"> • Apply fine water spray or foam blankets to minimise risk from airborne particulates • Establish decontamination procedures following exposure to airborne particulates Refer to Fires and firefighting training specification Refer to Environmental Protection training specification



Hazard - People

Knowledge and understanding

Hazard	Learning outcome
People	Understand all associated hazard knowledge



Control measure - Seek assistance for dealing with people

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Seek assistance for dealing with people	Understand: Available assistance and processes for: <ul style="list-style-type: none"> • Providing welfare or shelter • Controlling members of the public • Dealing with unpredictable, aggressive, violent or illegal behaviour

Practical application

Control measure element	Learning outcome
Seek assistance for dealing with people	Demonstrate the ability to: <ul style="list-style-type: none"> • Request appropriate assistance for dealing with people • Adopt defensive tactics when people are demonstrating, unpredictable, aggressive, violent or illegal behaviour • Provide timely and appropriate advice to members of the public



Control measure - Evacuation and shelter

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Evacuation and shelter of people	<p>Understand:</p> <ul style="list-style-type: none"> • The definition of evacuation • Why an evacuation may be required • Why shelter in place may be required • The hazards and risks associated with emergency evacuation • The potential behaviour of people in emergency situations • The emergency evacuation procedures for differing situations • Multi agency arrangements for managing evacuation • The factors that should influence evacuation strategies • Evacuation strategies for buildings • Evacuation strategies for different types of building including medical facilities • The considerations for incorporating evacuation procedures into incident plans • The wider impact of dealing with significant numbers of evacuated people • How to access information on evacuation plans

Practical application

Control measure element	Learning outcome
<p>Evacuate or shelter people to maintain their safety</p>	<p>Demonstrate the ability to:</p> <ul style="list-style-type: none"> • Liaise with the responsible person to obtain advice relating to evacuation arrangements • Identify where 'evacuation' or 'stay put' is appropriate and record rationale for decision • Perform an evacuation according to agreed service protocols • Recognise where the involvement of other agencies is required to assist with evacuation • Identify and access available emergency plans that support an evacuation • Develop an evacuation strategy using available information • Identify and establish safe evacuation points, safe egress routes and refuge points • Identify where the behaviour of people may affect an evacuation • Put in place control measures to limit hazards to people and personnel during evacuation • Assess the suitability of a location for people to shelter in place • Review the use and effectiveness of evacuation and shelter in place plans • Work with multi-agency partners to conduct an effective evacuation



Control measure - Warn, inform and advise people

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Warning, informing and advising people	<p>Understand:</p> <ul style="list-style-type: none"> • The relevant legislation regarding emergency services obligations to warn, inform and advise the public • The groups of people who may require warning, information, instruction and updates • How appropriate warning, information, instruction and updates affect behaviours of people in emergency situations • How lack of appropriate warning, information, instruction and updates affect behaviours of people in emergency situations • The characteristics of appropriate warnings • Methods for providing warnings, information, instruction and updates to people in emergency situations • How to identify, control and manage the public's access in the vicinity of the incident

Practical application

Control measure element	Learning outcome
Warn, inform and advise people	<p>Demonstrate the ability to:</p> <ul style="list-style-type: none"> • Use appropriate means to warn, inform, instruct and update public • Provide information that is <ul style="list-style-type: none"> - Specific - Comprehensible - Timely - Credible - Provides cues that are identifiable for action • Instigate appropriate procedures for warning public according to the environment and nature of warning and consider the use of: <ul style="list-style-type: none"> - Media - Social media - On foot/in person - PA announcements • Establish and maintain an appropriate contact in line with service procedure



Hazard - Biological materials

Knowledge and understanding

Hazard	Learning outcome
Biological materials	Understand all associated hazard knowledge Refer to National Operational Guidance: Operations- Failure to manage health, safety and welfare Refer to National Operational Guidance: Operations- Biological Hazards



Control measure - Establish hygiene controls

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Establish hygiene controls	Understand: <ul style="list-style-type: none">• The biological hazards that may be present at transport incidents• The appropriate control measures to protect people from risk of infection Refer to Manage risk from biological hazards – Operations training specification Refer to Manage risk from body fluids – Operations training specification Refer to Polluting materials – Environmental training specification

Practical application

Control measure element	Learning outcome
Establish hygiene controls	Demonstrate the ability to: <ul style="list-style-type: none">• Identify potential sources of biological contamination• Implement safe systems of work to protect emergency responders from contamination Refer to Manage risk from biological hazards – Operations training specification Refer to Manage risk from body fluids – Operations training specification Refer to Polluting materials – Environmental training specification



Control measure - Undertake decontamination

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Undertake decontamination	Refer to Hazardous materials training specification Refer to Environmental protection training specification

Practical application

Control measure element	Learning outcome
Undertake decontamination	Refer to Hazardous materials training specification Refer to Environmental Protection training specification



Hazard - Compromised investigations and scene preservation: Transport incidents

Knowledge and understanding

Hazard	Learning outcome
Compromised investigations and scene preservation: Transport incidents	Understand all associated hazard knowledge Have an awareness of investigating agencies that may be considered for investigating transport related incidents



Control measure - Scene security

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Secure the scene to assist fire investigation	Understand: <ul style="list-style-type: none">• The importance of maintaining lifesaving activities and fire service statutory duties where an investigation may be carried out• The considerations when securing an incident scene for investigation• The importance of maintaining strict cordon controls during an investigation• Methods of scene preservation• Protocols when liaising with other agencies

Practical application

Control measure element	Learning outcome
Preserve evidence to assist fire investigation	Demonstrate the ability to: <ul style="list-style-type: none">• Secure the scene to ensure evidence is preserved for internal and external investigations



Control measure - Evidence preservation

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Preserve evidence to assist fire investigation	Understand: <ul style="list-style-type: none">• Procedures for carrying out investigations through to conclusion• Preservation of evidence for investigation purposes

Practical application

Control measure element	Learning outcome
Preserve evidence	Demonstrate the ability to: <ul style="list-style-type: none">• Adopt good scene preservation and practices at all stages of an incident• Preserve evidence and avoid movement of working parts• Record information relevant to original state of the incident• Communicate scene and evidence preservation considerations to relevant personnel• Identify and request police and/or fire scene investigator(s)



Control measure - Investigation

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Investigation	Understand: <ul style="list-style-type: none">• Levels of fire investigation and responsible roles• How information from investigations informs future learning• The role of the police in an investigation• The role of the health and safety executive in an investigation• Multi-agency considerations during an investigation• The considerations for individuals during an investigation

Practical application

Control measure element	Learning outcome
Investigation	Demonstrate the ability to: <ul style="list-style-type: none">• Undertake fire investigation at a level appropriate to the circumstances of the incident



Control measure - Accurate records and statements

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Accurate records and statements	Understand: <ul style="list-style-type: none"> • Procedures for recording/logging incident information • The expectations of individuals to provide witness statements

Practical application

Control measure element	Learning outcome
Accurate records and statements	Demonstrate the ability to: <ul style="list-style-type: none"> • Use service procedures to record information and witness statements to inform future investigations • Record relevant information in a timely manner



Control measure - Written reports

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Written reports	Understand <ul style="list-style-type: none"> • The importance of recording accurate, clear and unbiased information • What information should be recorded • How legislation shapes official report writing • Types of documents: <ul style="list-style-type: none"> - Informal contemporaneous notes - Formally structured data gathering documents - Contemporaneous note books - Sketch plans, diagrams and photographs • The importance of signing and dating all types of records

Practical application

Control measure element	Learning outcome
Written reports	Demonstrate the ability to: <ul style="list-style-type: none">• Record relevant incident information in an appropriate format



Control measure - Attend coroner's court (or equivalent)

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Attend coroner's court	Understand: <ul style="list-style-type: none">• The aim of an inquest (or equivalent)• The role of fire service personnel at an inquest (or equivalent)• How information should be imparted during an inquest (or equivalent)• The relevant inquest (or equivalent) process

Practical application

Control measure element	Learning outcome
Attend coroner's court (or equivalent)	Demonstrate the ability to: <ul style="list-style-type: none">• Prepare evidence and records to a standard appropriate for scrutiny at an inquest or inquiry



Control measure - Highlight trends

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Highlight trends	Understand: <ul style="list-style-type: none">• All available information and systems that identify trends• The importance of liaison with other services and agencies to identify trends• Monitoring of impact on trends to assure effectiveness of interventions

Practical application

Control measure element	Learning outcome
Identify trends	Demonstrate the ability to: <ul style="list-style-type: none">• Use available systems to actively identify incident trends• Share relevant incident investigation information with other appropriate agencies



Control measure - Operational learning

TRAINING SPECIFICATION

Knowledge and understanding

Control measure element	Learning outcome
Operational learning	Understand: <ul style="list-style-type: none"> • How operational learning promotes learning • The purpose of: <ul style="list-style-type: none"> • Debriefs • Investigations • Operational assurance process Refer to National Operational Learning: Good practice guide for fire and rescue services

Practical application

Control measure element	Learning outcome
Operational learning	Demonstrate the ability to: <ul style="list-style-type: none"> • Record and share significant findings from incident and investigations to inform future practice Refer to National Operational Learning – Good practice guide for fire and rescue services