

Contractor Hazard Identification and Control Guide

This table is provided as a guide only and is not intended to be an exhaustive list of hazards and risk controls.

Hazard	Possible Cause	Suggested Risk Control Measure
Exposure to Asbestos Containing Materials (ACM)	<ul style="list-style-type: none"> Accidental disturbance or removal of ACM. 	<ul style="list-style-type: none"> Asbestos Containing Materials are to be removed outside school hours. No DET employees, students or visitors are to be on site. Contact the Asbestos Reinstatement and Preventative Maintenance Call Centre for support and advice Division 5 Asbestos Audit has been conducted and the report is readily accessible An Asbestos Register is available School Asbestos Management Plan has been developed and implemented Buildings where ACM has been identified have been labelled and label inspected Division 6 Asbestos Audit Report conducted prior to works being carried out All contractors report to front office and are inducted Area of disturbance or removal has been cordoned off to prevent access and exposure A Class 'A' removalist has been engaged to conduct removal works An occupational Hygienist has been engaged to conduct atmospheric monitoring and has completed the asbestos removal completion form in consultation with Workplace Manager Clearance certificate is provided and retained by workplace The Asbestos Removal Control Plan has been completed by the removalist Weather conditions have been considered Timeframes for works have been specified and communicated to all employees and school community
Lack of oxygen	<ul style="list-style-type: none"> Enter into a confined space 	<ul style="list-style-type: none"> No DET employee is to enter a confined space Isolate and lock out water / steam systems Isolate and lock out mains gas / gas systems Isolate and lock out hydraulic / electrical equipment Isolate and lock out mechanical / electrical drives Isolate and lock out flammable and combustible

Central Office Use Only	Issue Date: June 2015	Last Reviewed: February 2016	Next Review Date: February 2018
No. DET ESWB 24-5-4		Authorised By: Manager, ESWB	

Contractor Hazard Identification and Control Guide

This table is provided as a guide only and is not intended to be an exhaustive list of hazards and risk controls.

Hazard	Possible Cause	Suggested Risk Control Measure
		<ul style="list-style-type: none"> materials • Breathing apparatus is worn • Eye protection is worn • Hand protection is worn • Hearing protection is worn • Safety helmet is worn • Slip resistant footwear is worn • Harness is worn • Communication equipment is available and is in good working order • A safety observer has been established • O2 / Flammable gas monitor to be worn at all times • Emergency lifesaving apparatus (ELSA -15 minutes) and other emergency rescue equipment • Respiratory protection • Atmosphere has been tested for: <ul style="list-style-type: none"> ○ Oxygen % ○ Flammable gases ○ Toxic gases • Permit to Work for confined space entry has been completed and is displayed • Barricades are positioned around work area • Adequate lighting is available • First Aid trained personnel is available to assist, if required
<p>Traffic hazards</p>	<ul style="list-style-type: none"> • Working in close proximity to roads • Vehicles including trucks entering, exiting or moving on site 	<ul style="list-style-type: none"> • Eliminate the need for vehicles to enter school grounds • Mark pathways, parking bays, install physical barriers and speed humps • No entry to grounds during times of high pedestrian traffic i.e. school drop off/ pick up times or class breaks • If vehicles must enter the grounds during these times ensure it is not during times of peak pedestrian times (e.g. recess or lunch) • Use of wickets hats or temporary barriers to cordon off sections of road • Closure of road • Speed restriction and safety signs displayed and enforced • All contractors / delivery personnel report to

Contractor Hazard Identification and Control Guide

This table is provided as a guide only and is not intended to be an exhaustive list of hazards and risk controls.

Hazard	Possible Cause	Suggested Risk Control Measure
		<ul style="list-style-type: none"> front office prior to driving on site • Site specific Traffic Management Plan • Personal Protective Equipment (e.g. high visibility vest)
Manual handling	<ul style="list-style-type: none"> • Handling of large items • Use of heavy hand held tools e.g. jack hammer • Handling of heavy objects 	<ul style="list-style-type: none"> • Re-design task • Use of lifting aids (e.g. trolley, hoist) • Break up the load • Requirements for two person lifts or team lifting • Plan the transfer including checking to ensure a clear pathway and correct manual handling techniques are used (e.g. bending knees) • Personal Protective Equipment (e.g. gloves and enclosed footwear) • Safe Work Procedures are available
Contact with heat / radiation	<ul style="list-style-type: none"> • Use of Welder / Soldering Iron • Use of Angle Grinder • Fire in the workplace • Exposure to sun 	<ul style="list-style-type: none"> • Eliminate ignition sources from flammable atmospheres • Isolate and tag-out Pipes / valves • Isolate and tag-out Electrical outlets / appliances • Isolate and tag-out Tanks / vessels • Isolate fuel sources (e.g. flammable or combustible chemicals) • Use spark / flash screens when required • Remove flammable materials or store correctly • Enforce a spotter/fire watch during hot work • Provide personal protective equipment/clothing and training • Work area is barricaded and signage is posted • Water pump / fire brigade on standby • Provide fire fighting equipment • Reduce sun exposure time in the middle of the day • Provide sunscreen • Provide shade structures • Time frame for work to be carried out has been agreed to by Workplace Manager and contractor and communicated to employees and community, where required • Weather conditions have been considered including fire bans and wind direction

Contractor Hazard Identification and Control Guide

This table is provided as a guide only and is not intended to be an exhaustive list of hazards and risk controls.

Hazard	Possible Cause	Suggested Risk Control Measure
Contact with electricity	<ul style="list-style-type: none"> Faulty electric leads and tools No earth leakage detectors Electric leads on ground Electrical leads in damp areas Electric leads tied to metal rails Items of plant not isolated Contact with underground or overhead cables 	<ul style="list-style-type: none"> Electrical work only conducted by A Grade licenced electrician Isolate and lock out mains electricity / electrical equipment, where required Disconnect batteries and capacitors Isolate and lock out tanks/ vessels, where required Tools and leads used by contractors are inspected every 3 months by company as per testing and tagging requirements Use of portable residual current devices Residual current devices in all circuits Residual current devices tested monthly Electrical leads kept elevated and clear of work areas All electric leads kept dry and off the ground All electric leads are kept insulated Lock-out and equipment tag procedure Location of services to be established Establish safe clearance distances Weather conditions have been considered Time frame for work to be carried out has been agreed to by Workplace Manager and contractor and has been communicated to employees and community, where required Certificate of Electrical Capacity provided for any relevant changes or upgrades
Exposure to noise	<ul style="list-style-type: none"> Plant and equipment not silenced Not wearing appropriate protection Excessive exposure time to noisy areas 	<ul style="list-style-type: none"> Select equipment with consideration of lowest practicable dBA level Isolate noisy area as far as reasonably practicable, e.g. close doors, erect screens Fit noise suppression to noisy plant and equipment All personnel to wear appropriate PPE (hearing protectors) Regulate employee and students exposure to noise Conduct very noisy procedures out of schools hours or away from classroom where practicable
Contact with high pressure	<ul style="list-style-type: none"> Burst air lines Hoses becoming uncoupled 	<ul style="list-style-type: none"> Air hoses in good condition and regularly inspected All hose couplings fitted with pins or chains Cylinders stored upright and secured

Contractor Hazard Identification and Control Guide

This table is provided as a guide only and is not intended to be an exhaustive list of hazards and risk controls.

Hazard	Possible Cause	Suggested Risk Control Measure
	<ul style="list-style-type: none"> Using compressed air to clean clothing Improper handling of gas cylinders Pressure gauges 	<ul style="list-style-type: none"> All pressure gauges inspected regularly for defects Review relevant Material Safety Data Sheet
Contact with chemicals	<ul style="list-style-type: none"> Incorrect handling procedures Lack of information Not wearing appropriate PPE Incorrect storage Elevated exposure levels 	<ul style="list-style-type: none"> Material Safety Data Sheet (MSDS) is readily available Review MSDS and assess risks in consultation with contractor All personnel provided with appropriate PPE Hazardous substances stored and labelled correctly Provide mechanical ventilation and extraction Provision of spill kits or equipment to contain accidental spill
Struck against	<ul style="list-style-type: none"> Protruding objects in access routes Not wearing appropriate PPE Personnel running in the workplace 	<ul style="list-style-type: none"> Protruding objects are removed, marked or protected Provide appropriate PPE (hard hat, safety boots)
Struck by object	<ul style="list-style-type: none"> Objects falling from work platforms Debris from grinding operations Wind-blown particles 	<ul style="list-style-type: none"> All work platforms fitted with toe-boards Isolate area where there is a potential for persons or objects to fall and injure persons. Hand tools and materials are secured / tethered All personnel wear appropriate PPE (hard hats) Shield grinding operations Consider weather conditions e.g. forecast including wind conditions and fire bans

Contractor Hazard Identification and Control Guide

This table is provided as a guide only and is not intended to be an exhaustive list of hazards and risk controls.

Hazard	Possible Cause	Suggested Risk Control Measure
<p>Potential to fall two metres or more</p>	<ul style="list-style-type: none"> • No handrails • Working outside handrails • Floor penetrations not covered • Ladders not secured • Trench has not been supported or secured 	<ul style="list-style-type: none"> • Work from ground so far a reasonably practicable. • Use of passive fall prevention devices e.g. scissor lift by a licenced contractor • All work platforms have secure handrails • Persons wear full fall arrest type harness secured to anchorage points or static lines • Persons working at height and using fall arrest systems have been properly trained • All work platforms, scaffolds are fitted with toe boards • Barricade area below to prevent access to work area • Secure the construction site • Bench or shore the trench • Installation of support systems to brace the trench • Use of trench covers to secure trench when unattended • All ladders secured to prevent movement • All ladders have a load rating of 120kg, are industrial rated and comply with Australian Standards • Ladders to extend at least 1 metre above upper landing or roof • All ladders are inspected for damage • Spotter is positioned at bottom of ladder • Roof condition is assessed prior to accessing • Signage is available indicating works are being carried out • Personal Protective Equipment is worn at all times • Loose objects are secured • Rescue from height procedures are in place

Contractor Hazard Identification and Control Guide

This table is provided as a guide only and is not intended to be an exhaustive list of hazards and risk controls.

Hazard	Possible Cause	Suggested Risk Control Measure
Slips, trips and falls on same level	<ul style="list-style-type: none"> Access routes obstructed by materials/objects Leads and hoses across access routes Slippery surfaces Safety footwear not appropriate Poor visibility 	<ul style="list-style-type: none"> All access routes kept clear of materials and debris All leads kept clear of ground or covered All surfaces used for access kept dry and in good condition Wear appropriate Personal Protective Equipment e.g. enclosed footwear Provide adequate lighting
Caught between	<ul style="list-style-type: none"> Operating plant Moving plant Moving loads Loads tipping or swinging Materials being positioned 	<ul style="list-style-type: none"> Guarding of rotating plant and hand tools Safe work procedures to be followed Provide roll over cage protection Pre-start daily safety inspection Personnel kept clear when operating plant Fit reverse alarms to plant and check operation (including vehicles) All personnel kept clear during crane operations Load slings properly secured Safe Work Procedures (SWP) for moving heavy loads Use of a spotter when reversing
Overstress of lifting equipment	<ul style="list-style-type: none"> Safe Working Loads (SWL) exceeded during lifting operations Sprains and strains 	<ul style="list-style-type: none"> Compliance with SWL and radius charts on cranes All lifting gear is inspected regularly and records maintained All personnel trained in manual handling techniques Regular testing of structural integrity of load bearing components and records maintained
Ergonomic hazards	<ul style="list-style-type: none"> Poor work posture Use of excessive force Repetitive movements 	<ul style="list-style-type: none"> Work station design and set-up to conform with ergonomic standards Seating design and set-up to conform with ergonomic standards Provide adequate task lighting Provide mechanical aids Modify workplace design Modify task requirements Job rotation

Central Office Use Only	Issue Date: June 2015	Last Reviewed: February 2016	Next Review Date: February 2018
No. DET ESWB 24-5-4		Authorised By: Manager, ESWB	

Contractor Hazard Identification and Control Guide

This table is provided as a guide only and is not intended to be an exhaustive list of hazards and risk controls.

Hazard	Possible Cause	Suggested Risk Control Measure
Biological hazards	<ul style="list-style-type: none"> Needle stick injury Potential exposure to HIV, hepatitis Potential exposure to Legionella bacteria 	<ul style="list-style-type: none"> Provide appropriate biological waste disposal containers PPE is available and used (e.g. eye protection, masks, gowns/overalls and gloves) Implement infection control procedures DET workplace to provide Cooling Tower Risk Management Plan to contractor Cooling tower to be audited by a certified auditor
Emergency management/evacuation	<ul style="list-style-type: none"> Inadequate access/egress routes No exit signage Blocked access ways Inoperable emergency equipment 	<ul style="list-style-type: none"> Access/egress routes are communicated and signed Ensure access ways are clear Follow emergency evacuation procedures/plans Provide appropriate signage Location of fire equipment is communicated
Explosives	<ul style="list-style-type: none"> Trenching Stump removal Firework display 	<ul style="list-style-type: none"> Works are conducted outside of workplace operating hours Access is restricted and monitored during works to licenced pyrotechnicians Contractor must have an Explosives Licence or Pyrotechnicians Licence Explosives or fireworks are not stored on site Personal Protective Equipment is worn The contractor and public to be at a safe distance or are provided with a blasting shelter Notification to all necessary agencies (police and fire authority etc.) A blast management plan is developed in accordance with AS 2187.2: Explosives – Storage and use Safe Work Method Statement is provided