

# Live Services

**Eliminate or minimise the risks of fatalities, injuries and events arising from underground, concealed and overhead services**



## Critical controls

- › Identify known services
- › Locate known services
- › Protect known services
- › Asset/utility owner requirements known and applied
- › Harmful energy sources de-energised or isolated, if possible





# Electricity

**Eliminate or minimise the risks of fatalities, injuries and events arising from onsite electrical installations and electrical equipment**



## Critical controls

- › Only licensed electricians to carry out electrical work
- › Isolate electrical energy sources
- › Test for dead prior to electrical work
- › All power supplies to be RCD protected
- › Test and tag electrical equipment





# Work at Height

Eliminate or minimise the risks of fatalities, injuries and events arising from work at height and using elevated work platforms



## Critical controls

- › Fall or edge protection equipment utilised and fit for use
- › Exclusion zones established where a risk of falling objects exists
- › Penetrations, voids or openings must be protected
- › EWPs (boom-type) fitted with secondary protection, where overhead hazards exist
- › Anchor points are inspected and suitably rated





# Live Traffic

Eliminate or minimise the risks of fatalities, injuries and events arising from working in close proximity to passing traffic and other road users



## Critical controls

- › Approved Traffic Management Plan
- › Traffic control devices and signage in place and monitored
- › Traffic controller where needed, to be competent
- › Work zones and separation distances delineated
- › No working in a live lane unprotected





# Asbestos

**Eliminate or minimise the risks of fatalities, injuries and events arising from the management, removal and disposal of asbestos**



## Critical controls

- › Prevent airborne asbestos fibres
- › Correct disposal of contaminated material/equipment
- › Hazardous areas signed and segregated
- › Clearance certificate issued, where required
- › Task specific personal protective equipment used





# Cranes & Lifting

**Eliminate or minimise the risks of fatalities,  
injuries and events arising from cranes  
and lifting**



## **Critical controls**

- › **Lifting equipment inspected prior to use**
- › **Exclusion zones established for lift area**
- › **Load charts used to determine lifting capacity**
- › **Positive communications between persons involved**
- › **Ground bearing to be verified for crane use**





# Excavation

**Eliminate or minimise the risks of fatalities, injuries and events arising from excavations greater than 1.5m**



## Critical controls

- › **Services to be identified, located and protected**
- › **Excavations benched, battered or shored and accessed according to code of practice**
- › **Plant, spoil and equipment placed outside zone of influence**
- › **Open excavations controlled from un-authorized access**
- › **Inspect excavations for changes in stability**





# Plant, Vehicles & People

**Eliminate or minimise the risks of fatalities, injuries and events arising from the interaction of mobile plant, equipment, vehicles and people**



## **Critical controls**

- › **Separation of plant and people**
- › **Plant and vehicles parked in a stable manner**
- › **Positive communication around operational plant**
- › **Control blind reversing**
- › **Obey speed limits and operate to conditions**





# Confined Space

**Eliminate or minimise the risks of fatalities,  
injuries and events arising from working in  
a confined space**



## Critical controls

- › Isolate harmful energies or sources
- › Test atmosphere for safe oxygen levels
- › Emergency rescue plan in place and rehearsed
- › Entry controlled by permit
- › Standby person in constant communication with entrant





# Demolition

**Eliminate or minimise the risks of fatalities, injuries and events arising from licensed demolition works**



## Critical controls

- › Hazardous materials assessments undertaken
- › Hazardous materials to be removed
- › Disconnect relevant known services
- › Exclusion zones established
- › Structural stability maintained progressively

