



Rethinking safety through
INCLUSION
+
WELLBEING

HEALTH + SAFETY

PRIMARY STANDARD

30/03/2026

BARRICADING

PURPOSE AND SCOPE

The Primary Standard details the requirements relating to barricading at Laing O'Rourke workplaces.

This document is Mandatory and must be achieved across all Laing O'Rourke Workplaces. Where alternative controls are implemented, these must be approved through the FSR/HSEMS Requirement Dispensation process

REQUIREMENTS

PLANNING WORK

- Adhere/apply SR Risk Assessment and SiD processes when selecting and apply the hierarchy of controls to ensure the risk is controlled SFAIRP.
- When determining the appropriate level of barricading, consideration should be given to but not limited to the following:
 - Scope of work
 - Nature of the hazards and risks associated to the work
 - Location of people, adjacent work activities and associated hazards and risks
 - Work areas and activities above or below the planned work location
 - Risks associated with implementing barricading controls e.g. underground assets if installing star pickets or ground bearing pressure if implementing jersey barriers etc
 - Operating limits of plant and equipment within the zone
 - Movements of plant and equipment adjacent to the work (e.g. haul road)
 - Size of the work area to cover and configuration of barricading
 - Strength of barriers required to control exposure to impact hazards
- Determine if barricading requires engineered designs to meet performance criteria such as:
 - Edge protection or fall prevention systems
 - Use of non-standard barriers as edge protection
 - Hoarding to withstand wind loading
 - Barriers installed in the rail protection zone
- Review that selected barriers do not introduce new hazards or risks.
- In Rail, delineation and barriers used in the rail protection zone to demarcate the danger zone, live lines etc must meet the Network Operators requirements and must not foul the track during its use.
- In Rail, barricades and colour of delineation flagging/bunting must meet the Network Operators requirements.

EXECUTING WORK

- Install barricading, delineation and signage according to the required specifications and if applicable, engineering designs.
- If barricading has associated temporary works design, it must be installed accordingly to ensure consistent performance.
- Inspect the installation and integrity of barricading and delineation at required frequencies as per the design or as determined to verify it is effective as intended.
- Monitor and inspect barriers and signage to verify that it is performing as intended.
- Rectify any deficiencies identified with barricading and delineation installations.
- Once work is complete and hazard no longer present, remove barriers, delineation and signage.

FACILITIES, INSTALLATIONS, PLANT AND EQUIPMENT

- Remove damaged barriers and delineation that are no longer effective.
- Ensure signage used is clear and shows appropriate level of information:
 - Contact information of person in charge including name of person, their contact number
 - Radio channel used by the work group in the area)
 - Hazard/Risk warning where applicable (Drop zone, Asbestos, etc.)





DEFINITIONS

Term	Definition
Visual Delineation	Delineation used to demarcate a work area or zone. They rely on visibility rather than physical strength or structure to discourage or restrict access.
Physical Barricading	Barriers used to physically prevent or restrict access to an area. They are self-supporting structures that are designed to hinder entry.




VISUAL DELINEATION

Visual Delineation		
Type of Delineation	What it's used for	Comments
Traffic Cones, T-Top Bollards with Barrier Poles. 	<ul style="list-style-type: none"> • To temporarily demarcate general hazards. • Scene / incident preservation. • Delineation of the blind side of loading and loading activities in temporary locations. 	

Visual Delineation




Type of Delineation	What it's used for	Comments
Retractable barrier tape, Bunting/flagging, Delineation Tape 	<ul style="list-style-type: none"> To temporarily demarcate general hazards. Scene / incident preservation. Delineation of the blind side of loading and loading activities in temporary locations. Restricted work zone for lifting activities. 	
A-Frame barriers retractable concertina barriers. 	<ul style="list-style-type: none"> To demarcate storage areas in laydown yards. To delineate short term temporary pedestrian walkways that have no risk of mobile plant impact. Delineation of the blind side of loading and loading activities with mobile plant. Restricted work zone for lifting activities. 	
Vortok Safety Fencing 	<ul style="list-style-type: none"> Visual delineation to separate a live rail line to prevent inadvertent pedestrian access Clarifies limitation of a live rail line 	Barriers and delineation to be used in live rail areas must be approved by network operator prior to use.
Para webbing 	<ul style="list-style-type: none"> To Temporarily demarcate general hazards. Segregation within laydown areas. Environmental exclusion zones or no-go zones (Blue and white). To demarcate stockpiles. 	If star pickets used as for structure, ground penetration permits must be approved prior to installation.

PHYSICAL BARRICADING

Physical Barricading		
Type of Barricading	What it's used for	Comments
<p>Para webbing (heavy duty/Supported by strands of wire)</p> 	<ul style="list-style-type: none"> • Demarcate exclusion zone from live rail (blue and white or Network Operator Requirements). 	<p>If star pickets used as for structure, ground penetration permits must be approved prior to installation.</p>
<p>Crowd Barrier Fencing or similar</p> 	<ul style="list-style-type: none"> • Internal separation of work areas where there is no or minimal risk to mobile plant impacts. • Short term work zone delineation. • Survey works. • Concrete pours. • Minor service works. • Segregation within laydown areas. • Piling auger and slew zone. • Dropped objects zone beneath and adjacent to work at Heights. • Isolating entry to beneath formwork during concrete placement and setting. • Open excavations less than 1.5 meters. • Delineate plant only zones. • Delineate Open Pile Holes. • Restricted work zone for lifting activities. 	<p>Gates to be utilized for entry into work areas, for crossing points.</p>
<p>Pecaform Walkways</p> 	<ul style="list-style-type: none"> • Internal separation of work areas where there is no or minimal risk to mobile plant impacts. • Segregation within laydown areas. 	<p>If star pickets are used for structure, ground penetration permits must be approved prior to installation.</p>




Physical Barricading

Type of Barricading	What it's used for	Comments
<p>Temporary Fencing</p> 	<ul style="list-style-type: none"> • Site perimeter security. • Internal separation of work zones. • Control Access to Deep Excavations e.g. 1.5 meters or greater. • Demolition areas. • Delineate plant only zones. 	<p>Use of temporary fencing may require temporary works design to ensure the set up can withstand wind loading, taking into consideration use of shade cloth.</p>
<p>Scaffold and tubing and other temporary works designed edge protection</p> 	<ul style="list-style-type: none"> • Shaft or long-term excavation protection. • Edge protection. • Penetration protections. 	<p>Must comply with temporary works procedure in terms of design, installation, inspection regime and removal.</p>
<p>Water Filled Barriers</p> 	<ul style="list-style-type: none"> • Separate people from low-speed mobile plant and vehicles. • Protect vulnerable assets from impact from mobile plant or vehicles (such as services, scaffolds, propping). • Delineate plant only zones. • Restricted work zone for lifting activities. 	<p>Only AS1743 compliant water filled barriers to be used on public roads (as approved by the authority) or next to haul roads.</p> <p>Barriers are to be connected and installed as per temp work design and any engineering and manufacturer specifications.</p>





Physical Barricading

Type of Barricading	What it's used for	Comments
<p>Water filled barriers (with anti gawk screens)</p> 	<ul style="list-style-type: none"> • Worksite perimeter protection (with anti-gawk screens) from public traffic (low speed). • Control Access to Deep Excavations e.g. 1.5 meters of greater. • Demolition areas. 	<p>Only AS1743 compliant water filled barriers to be used on public roads or next to haul roads.</p> <p>Barrier will be connected and installed as per temp work design and any engineering and manufacturer specifications.</p>
<p>Hoarding</p>  	<ul style="list-style-type: none"> • Site perimeter security • Separation of pedestrians / members of public from work zones • To delineate the edge of construction sites • Control Access to long term long term Deep Excavations/shafts e.g. 1.5 meters of greater. • Demolition areas. 	<p>Hoarding requires temporary works design to ensure it can withstand wind loading, public forces and other external forces.</p>
<p>Concrete Barriers</p> 	<ul style="list-style-type: none"> • Separate people from mobile plant and vehicle. • Set up of long-term pedestrian walkway separation next to haul roads. • Protect vulnerable assets from impact from mobile plant or vehicles (i.e. scaffolds). • Delineate plant only zones. 	<p>Ensure ground bearing pressure is suitable for the placement of concrete barriers.</p> <p>Barrier will to be connected and installed as per temp work design and any engineering specifications.</p>




Physical Barricading

Type of Barricading	What it's used for	Comments
<p>Concrete barriers with anti gawk screen</p> 	<ul style="list-style-type: none"> • Separate people from mobile plant and vehicles. • Set up of long-term pedestrian walkway separation next to haul roads. • Worksite perimeter protection from public traffic. • Control Access to long term long term Deep Excavations/shafts e.g. 1.5 meters of greater. • Demolition areas. 	<p>Ensure ground bearing pressure is suitable for the placement of concrete barriers.</p> <p>Barriers are to be connected and installed as per temp work design and any engineering specifications.</p>
<p>Steel Impact Road Barriers</p> 	<ul style="list-style-type: none"> • Worksite perimeter protection from public traffic. 	<p>Must have temp works design and installed as engineering specifications/per design.</p> <p>Installation must follow manufacturer requirements. Where barriers may impact structural integrity (like bridges) or defer from manufacturer guidance, temporary works team must approve prior to installation.</p>



Physical Barricading

Type of Barricading	What it's used for	Comments
<p>Steel Impact Road Barriers (Gawk Screens)</p> 	<ul style="list-style-type: none"> Worksite perimeter protection from public traffic. 	<p>Must have temp works design and installed as engineering specifications/per design.</p> <p>Installation must follow manufacturer requirements. Where barriers may impact structural integrity (like bridges) or defer from manufacturer guidance, temporary works team must approve prior to installation.</p>