

1. Objective and Scope

To describe the process of safely deploying and setting out Ironman Hybrid Temporary Barrier System, utilising a Crane.

2. Responsibilities

The site manager and appropriately experienced staff has overall responsibility of ensuring that all elements of this procedure are carried out.

3. General Specifications

General barrier specification are as follows:

- Galvanised Steel Construction
- Length – 4.115m (pin centres)
- Width – 546mm
- Height – 813mm
- Weight – 925kg

4. Personal Protective Equipment

The following is mandatory PPE.



Boots



Eye Protection



Ear Protection



Hi Viz



Gloves



Protective Clothing

5. General Safety Points

- a) PPE must be worn at all times – refer point 4; and
- b) All operators driving a forklift must hold a current valid licence.

6. Set Up and Arrival

- a) Ensure that you are at the correct location / site;
- b) Meet with appropriate personnel from site.

- c) Commence site specific induction process and sign in;
- d) Ensure Traffic Management has been appropriately set up;
- e) Conduct a site walk through or drive through, observing hazards such as culverts, drop offs, overhead powerlines, underground services, hydrants, ground or road conditions.



- f) Calculate and observe that the quantity of barriers & End Treatments is correct or measure to be accurate; and
- g) Prior to the actual commencement of any works, the works supervisor must conduct a site review with a representative (site manager or site OH&S rep.) of the prime contractor no less than 24 hours prior to commencement

7. Plan the deployment (Crane Operator)

Considering all site observations, make any appropriate changes or inclusions to ensure safe deployment and placement of barriers, such as:

- a) Increase traffic management or taper;
- b) Ensure a spotter is available if required;
- c) Make contingencies for unworkable areas;
- d) Mark on road areas to avoid or navigate;



- e) Ensure freight trucks can easily access and exit the site (as you have planned);
- f) Liaise with the operator and any other dogman or assistants regarding the plan and discuss any discrepancies (document & detail these); and
- g) Communicate with the Project Manager any important deployment changes or issues and ensure any outcomes are communicated with all parties.



9. Deployment with a Crane (such as a Franna Crane or Truck Mounted Crane)

- a) Ensure the plant operator can provide a log book and has evidence that their equipment is appropriately maintained;
- b) Ensure any lifting chains and / or slings are in good condition serviced and tagged accordingly.

8. Safety Briefing (Forklift or Manitou)

- a) Conduct a safety briefing with all key parties once a plan of action has been agreed to;
- b) Discuss and demonstrate the manual handling risks;
- c) Make it clear to all parties about the pinch point hazard and clearly instruct that all hands must be clear when joining barriers; all parties involved in the actual placement of barriers must adhere to this strictly.

Item	Qty	Location	Notes	Operator	Inspector
1	10	Site A	10 x 1.2m x 1.2m x 1.2m	John	John
2	5	Site B	5 x 1.2m x 1.2m x 1.2m	John	John
3	10	Site C	10 x 1.2m x 1.2m x 1.2m	John	John
4	10	Site D	10 x 1.2m x 1.2m x 1.2m	John	John
5	10	Site E	10 x 1.2m x 1.2m x 1.2m	John	John
6	10	Site F	10 x 1.2m x 1.2m x 1.2m	John	John
7	10	Site G	10 x 1.2m x 1.2m x 1.2m	John	John
8	10	Site H	10 x 1.2m x 1.2m x 1.2m	John	John
9	10	Site I	10 x 1.2m x 1.2m x 1.2m	John	John
10	10	Site J	10 x 1.2m x 1.2m x 1.2m	John	John
11	10	Site K	10 x 1.2m x 1.2m x 1.2m	John	John
12	10	Site L	10 x 1.2m x 1.2m x 1.2m	John	John
13	10	Site M	10 x 1.2m x 1.2m x 1.2m	John	John
14	10	Site N	10 x 1.2m x 1.2m x 1.2m	John	John
15	10	Site O	10 x 1.2m x 1.2m x 1.2m	John	John
16	10	Site P	10 x 1.2m x 1.2m x 1.2m	John	John
17	10	Site Q	10 x 1.2m x 1.2m x 1.2m	John	John
18	10	Site R	10 x 1.2m x 1.2m x 1.2m	John	John
19	10	Site S	10 x 1.2m x 1.2m x 1.2m	John	John
20	10	Site T	10 x 1.2m x 1.2m x 1.2m	John	John
21	10	Site U	10 x 1.2m x 1.2m x 1.2m	John	John
22	10	Site V	10 x 1.2m x 1.2m x 1.2m	John	John
23	10	Site W	10 x 1.2m x 1.2m x 1.2m	John	John
24	10	Site X	10 x 1.2m x 1.2m x 1.2m	John	John
25	10	Site Y	10 x 1.2m x 1.2m x 1.2m	John	John
26	10	Site Z	10 x 1.2m x 1.2m x 1.2m	John	John
27	10	Site AA	10 x 1.2m x 1.2m x 1.2m	John	John
28	10	Site AB	10 x 1.2m x 1.2m x 1.2m	John	John
29	10	Site AC	10 x 1.2m x 1.2m x 1.2m	John	John
30	10	Site AD	10 x 1.2m x 1.2m x 1.2m	John	John
31	10	Site AE	10 x 1.2m x 1.2m x 1.2m	John	John
32	10	Site AF	10 x 1.2m x 1.2m x 1.2m	John	John
33	10	Site AG	10 x 1.2m x 1.2m x 1.2m	John	John
34	10	Site AH	10 x 1.2m x 1.2m x 1.2m	John	John
35	10	Site AI	10 x 1.2m x 1.2m x 1.2m	John	John
36	10	Site AJ	10 x 1.2m x 1.2m x 1.2m	John	John
37	10	Site AK	10 x 1.2m x 1.2m x 1.2m	John	John
38	10	Site AL	10 x 1.2m x 1.2m x 1.2m	John	John
39	10	Site AM	10 x 1.2m x 1.2m x 1.2m	John	John
40	10	Site AN	10 x 1.2m x 1.2m x 1.2m	John	John
41	10	Site AO	10 x 1.2m x 1.2m x 1.2m	John	John
42	10	Site AP	10 x 1.2m x 1.2m x 1.2m	John	John
43	10	Site AQ	10 x 1.2m x 1.2m x 1.2m	John	John
44	10	Site AR	10 x 1.2m x 1.2m x 1.2m	John	John
45	10	Site AS	10 x 1.2m x 1.2m x 1.2m	John	John
46	10	Site AT	10 x 1.2m x 1.2m x 1.2m	John	John
47	10	Site AU	10 x 1.2m x 1.2m x 1.2m	John	John
48	10	Site AV	10 x 1.2m x 1.2m x 1.2m	John	John
49	10	Site AW	10 x 1.2m x 1.2m x 1.2m	John	John
50	10	Site AX	10 x 1.2m x 1.2m x 1.2m	John	John
51	10	Site AY	10 x 1.2m x 1.2m x 1.2m	John	John
52	10	Site AZ	10 x 1.2m x 1.2m x 1.2m	John	John
53	10	Site BA	10 x 1.2m x 1.2m x 1.2m	John	John
54	10	Site BB	10 x 1.2m x 1.2m x 1.2m	John	John
55	10	Site BC	10 x 1.2m x 1.2m x 1.2m	John	John
56	10	Site BD	10 x 1.2m x 1.2m x 1.2m	John	John
57	10	Site BE	10 x 1.2m x 1.2m x 1.2m	John	John
58	10	Site BF	10 x 1.2m x 1.2m x 1.2m	John	John
59	10	Site BG	10 x 1.2m x 1.2m x 1.2m	John	John
60	10	Site BH	10 x 1.2m x 1.2m x 1.2m	John	John
61	10	Site BI	10 x 1.2m x 1.2m x 1.2m	John	John
62	10	Site BJ	10 x 1.2m x 1.2m x 1.2m	John	John
63	10	Site BK	10 x 1.2m x 1.2m x 1.2m	John	John
64	10	Site BL	10 x 1.2m x 1.2m x 1.2m	John	John
65	10	Site BM	10 x 1.2m x 1.2m x 1.2m	John	John
66	10	Site BN	10 x 1.2m x 1.2m x 1.2m	John	John
67	10	Site BO	10 x 1.2m x 1.2m x 1.2m	John	John
68	10	Site BP	10 x 1.2m x 1.2m x 1.2m	John	John
69	10	Site BQ	10 x 1.2m x 1.2m x 1.2m	John	John
70	10	Site BR	10 x 1.2m x 1.2m x 1.2m	John	John
71	10	Site BS	10 x 1.2m x 1.2m x 1.2m	John	John
72	10	Site BT	10 x 1.2m x 1.2m x 1.2m	John	John
73	10	Site BU	10 x 1.2m x 1.2m x 1.2m	John	John
74	10	Site BV	10 x 1.2m x 1.2m x 1.2m	John	John
75	10	Site BW	10 x 1.2m x 1.2m x 1.2m	John	John
76	10	Site BX	10 x 1.2m x 1.2m x 1.2m	John	John
77	10	Site BY	10 x 1.2m x 1.2m x 1.2m	John	John
78	10	Site BZ	10 x 1.2m x 1.2m x 1.2m	John	John
79	10	Site CA	10 x 1.2m x 1.2m x 1.2m	John	John
80	10	Site CB	10 x 1.2m x 1.2m x 1.2m	John	John
81	10	Site CC	10 x 1.2m x 1.2m x 1.2m	John	John
82	10	Site CD	10 x 1.2m x 1.2m x 1.2m	John	John
83	10	Site CE	10 x 1.2m x 1.2m x 1.2m	John	John
84	10	Site CF	10 x 1.2m x 1.2m x 1.2m	John	John
85	10	Site CG	10 x 1.2m x 1.2m x 1.2m	John	John
86	10	Site CH	10 x 1.2m x 1.2m x 1.2m	John	John
87	10	Site CI	10 x 1.2m x 1.2m x 1.2m	John	John
88	10	Site CJ	10 x 1.2m x 1.2m x 1.2m	John	John
89	10	Site CK	10 x 1.2m x 1.2m x 1.2m	John	John
90	10	Site CL	10 x 1.2m x 1.2m x 1.2m	John	John
91	10	Site CM	10 x 1.2m x 1.2m x 1.2m	John	John
92	10	Site CN	10 x 1.2m x 1.2m x 1.2m	John	John
93	10	Site CO	10 x 1.2m x 1.2m x 1.2m	John	John
94	10	Site CP	10 x 1.2m x 1.2m x 1.2m	John	John
95	10	Site CQ	10 x 1.2m x 1.2m x 1.2m	John	John
96	10	Site CR	10 x 1.2m x 1.2m x 1.2m	John	John
97	10	Site CS	10 x 1.2m x 1.2m x 1.2m	John	John
98	10	Site CT	10 x 1.2m x 1.2m x 1.2m	John	John
99	10	Site CU	10 x 1.2m x 1.2m x 1.2m	John	John
100	10	Site CV	10 x 1.2m x 1.2m x 1.2m	John	John
101	10	Site CW	10 x 1.2m x 1.2m x 1.2m	John	John
102	10	Site CX	10 x 1.2m x 1.2m x 1.2m	John	John
103	10	Site CY	10 x 1.2m x 1.2m x 1.2m	John	John
104	10	Site CZ	10 x 1.2m x 1.2m x 1.2m	John	John
105	10	Site DA	10 x 1.2m x 1.2m x 1.2m	John	John
106	10	Site DB	10 x 1.2m x 1.2m x 1.2m	John	John
107	10	Site DC	10 x 1.2m x 1.2m x 1.2m	John	John
108	10	Site DD	10 x 1.2m x 1.2m x 1.2m	John	John
109	10	Site DE	10 x 1.2m x 1.2m x 1.2m	John	John
110	10	Site DF	10 x 1.2m x 1.2m x 1.2m	John	John
111	10	Site DG	10 x 1.2m x 1.2m x 1.2m	John	John
112	10	Site DH	10 x 1.2m x 1.2m x 1.2m	John	John
113	10	Site DI	10 x 1.2m x 1.2m x 1.2m	John	John
114	10	Site DJ	10 x 1.2m x 1.2m x 1.2m	John	John
115	10	Site DK	10 x 1.2m x 1.2m x 1.2m	John	John
116	10	Site DL	10 x 1.2m x 1.2m x 1.2m	John	John
117	10	Site DM	10 x 1.2m x 1.2m x 1.2m	John	John
118	10	Site DN	10 x 1.2m x 1.2m x 1.2m	John	John
119	10	Site DO	10 x 1.2m x 1.2m x 1.2m	John	John
120	10	Site DP	10 x 1.2m x 1.2m x 1.2m	John	John
121	10	Site DQ	10 x 1.2m x 1.2m x 1.2m	John	John
122	10	Site DR	10 x 1.2m x 1.2m x 1.2m	John	John
123	10	Site DS	10 x 1.2m x 1.2m x 1.2m	John	John
124	10	Site DT	10 x 1.2m x 1.2m x 1.2m	John	John
125	10	Site DU	10 x 1.2m x 1.2m x 1.2m	John	John
126	10	Site DV	10 x 1.2m x 1.2m x 1.2m	John	John
127	10	Site DW	10 x 1.2m x 1.2m x 1.2m	John	John
128	10	Site DX	10 x 1.2m x 1.2m x 1.2m	John	John
129	10	Site DY	10 x 1.2m x 1.2m x 1.2m	John	John
130	10	Site DZ	10 x 1.2m x 1.2m x 1.2m	John	John
131	10	Site EA	10 x 1.2m x 1.2m x 1.2m	John	John
132	10	Site EB	10 x 1.2m x 1.2m x 1.2m	John	John
133	10	Site EC	10 x 1.2m x 1.2m x 1.2m	John	John
134	10	Site ED	10 x 1.2m x 1.2m x 1.2m	John	John
135	10	Site EE	10 x 1.2m x 1.2m x 1.2m	John	John
136	10	Site EF	10 x 1.2m x 1.2m x 1.2m	John	John
137	10	Site EG	10 x 1.2m x 1.2m x 1.2m	John	John
138	10	Site EH	10 x 1.2m x 1.2m x 1.2m	John	John
139	10	Site EI	10 x 1.2m x 1.2m x 1.2m	John	John
140	10	Site EJ	10 x 1.2m x 1.2m x 1.2m	John	John
141	10	Site EK	10 x 1.2m x 1.2m x 1.2m	John	John
142	10	Site EL	10 x 1.2m x 1.2m x 1.2m	John	John
143	10	Site EM	10 x 1.2m x 1.2m x 1.2m	John	John
144	10	Site EN	10 x 1.2m x 1.2m x 1.2m	John	John
145	10	Site EO	10 x 1.2m x 1.2m x 1.2m	John	John
146	10	Site EP	10 x 1.2m x 1.2m x 1.2m	John	John
147	10	Site EQ	10 x 1.2m x 1.2m x 1.2m	John	John
148	10	Site ER	10 x 1.2m x 1.2m x 1.2m	John	John
149	10	Site ES	10 x 1.2m x 1.2m x 1.2m	John	John
150	10	Site ET	10 x 1.2m x 1.2m x 1.2m	John	John
151	10	Site EU	10 x 1.2m x 1.2m x 1.2m	John	John
152	10	Site EV	10 x 1.2m x 1.2m x 1.2m	John	John
153	10	Site EW	10 x 1.2m x 1.2m x 1.2m	John	John
154	10	Site EX	10 x 1.2m x 1.2m x 1.2m	John	John
155	10	Site EY	10 x 1.2m x 1.2m x 1.2m	John	John
156	10	Site EZ	10 x 1.2m x 1.2m x 1.2m	John	John
157	10	Site FA	10 x 1.2m x 1.2m x 1.2m	John	John
158	10	Site FB	10 x 1.2m x 1.2m x 1.2m	John	John
159	10	Site FC	10 x 1.2m x 1.2m x 1.2m	John	John
160	10	Site FD	10 x 1.2m x 1.2m x 1.2m	John	John
161	10	Site FE	10 x 1.2m x 1.2m x 1.2m	John	John
162	10	Site FF	10 x 1.2m x 1.2m x 1.2m	John	John
163	10	Site FG			



- g) Ensure crane operator lowers the barrier(s) before traversing to increase load stability when getting in to position.



- h) Barrier Team Leader to provide all directional information and instructions to the operator so there is only 1 person communicating (Team Leader will need to remain aware of surroundings and where other people are while instructing).
- i) Deployment team must not get in between the joining barriers to avoid any crush incident.



- j) When connecting two barriers, lower the barrier to approx. 20-25mm off the ground before gently guiding the barriers together, lower them gently as they come together (allowing the barrier knuckles to align and pin to easily slide down between the knuckles to complete the connection);
- k) When barriers are being joined, the Pinch Point hazard needs to be highlighted, and all hands are to be free from barriers upon joining and away from the crush/impact area;



- l) If barriers are to be removed from the truck (2 at a time) appropriate safety checks on capacity of the machine and chains and clutches must be performed (operator and Dogman &/or Barrier Team Leader must both approve)



SOP REVISION UPDATES

Rev 4 dated 24/10/2020

- a) New format