

Risk Assessment & Method Statement - Spine



Project Scope:

Location issues: *Heavy public presence, adverse weather conditions. Specific requirements from the client: armoured cables.*

Detail:

- Installed before work commences;
 - o Service chamber with multi-core fibre,
 - o Multiple chambers on route (distance of run 300 – 2000m)
 - o Ducting from work point 1 to work point 2
- Pull spine tubing through ducting from work point 1 to work point 2.
- Blow the fibre through the tubing.
- Splice the fibre.

Hazard Identification and Risk Controls

Given in the attached Risk Assessment

Environmental Protection Measure:

Waste and spoil to the designated area or skip provided for waste.

Quality Control:

The installation will be checked on completion by inspection.

Welfare:

Resident WC facilities to be used with permission or permission from local businesses.

Method

1. Effectively barrier off working area to prevent public access.
2. Provide clear safe, alternative pedestrian routes if work area obstructs existing footpaths.
3. Remove chamber cover (work point 1)
4. Check atmosphere in the chamber is not hazardous
5. Pump any water from the chamber following test for suitability for ground or tank disposal.
6. **Set up cable drum following MAP procedure.**
7. Check existing duct is clear by pulling rope (already installed in duct) to see between chambers to test if it moves smoothly.
8. If no rope is present, hand rod the ducting to check it is clear.
9. If rope / hand rodding indicates a blockage in the duct, clear site and refer job to manager and Client (civils).
10. Using rod / rope, pull tubing through ducting.
11. Blow fibre through the tubing in the ducting from the chamber to chamber as necessary
12. Splice fibre as necessary.
13. Test integrity of connections.
14. Remove barriers.

	Name	Title	Date
Document Author	Lee Meek	H&S Manager	12/07/2018
Authorised by	Matty Carlin	Director	15/10/2018

Risk Rating

Likelihood		Consequence	
1	Very unlikely	1 in a million of hazardous event	1 Insignificant No injury
2	Unlikely	1 in 100,000 of hazardous event	2 Minor Minor injuries requiring first aid
3	Fairly likely	1 in 10,000 of hazardous event	3 Moderate Up to 7 days absence
4	Likely	1 in 1,000 of hazardous event	4 Major More than 7 days absence
5	Very likely	1 in 100 of hazardous event	5 Catastrophic Death

LIKELIHOOD	CONSEQUENCES				
	1	2	3	4	5
5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5

□ Location / Activity ○ Hazard	➤ Who might be harmed, ❖ The Hazardous Event The Consequences	Controls	Risk Rating		
			L	C	R
□ Road outside premises / removing equipment from van / trailer. ○ Road Traffic	➤ Technician ❖ Impact from passing vehicle Catastrophic	1. Van to be parked with side door accessing cargo area adjacent to the pavement. 2. Vehicle / Trailer to be coned off before accessing equipment. 3. Hi-Viz to be worn at all times.	1	5	5
□ Carrying equipment / tool. ○ Manual handling	➤ Technician, ❖ Inappropriate manual handling Major musculoskeletal injury	1. Manual handling training in induction. 2. Manual Handling TBT sent out approximately once per year. 3. Regular refresher training at 3 yearly intervals.	2	4	8
□ Accessing / working on underground services ○ Electricity	➤ Technician, ❖ Contact with live conductors Catastrophic	1. Insulated tools	1	5	5
□ Accessing / working on underground services ○ Gas	➤ Technician ❖ Explosive atmosphere ❖ Oxygen deficient atmosphere Catastrophic	1. Calibrated GDU provided. 2. Gas testing/GDU usage training provided in induction and at regular intervals. 3. Utility provider phone number supplied to technician.	2	5	10
□ Accessing / working on underground services ○ Needles	➤ Technician ❖ Infection Major illness	1. Technician training when needles are present in induction. 2. Sharps hotline number given to technician in induction and at regular intervals via TBT. 3. Regular refresher training on lifting pits and pulling cables Inc. not putting hand where they cannot be seen	2	4	8
□ Accessing / working on underground services ○ Venomous insects	➤ Technician, ❖ Bitten by venomous insect Minor injury	1. Training involving: Leave undisturbed, take picture, seeking medical advice. 2. Refresher training	1	2	2
□ Accessing / working on underground services ○ Open pit	➤ Technician / members of the public, ❖ Falling into the pit Major injury	1. Training on opening pits. 2. Gate guards provided. 3. Sand Bags for windy conditions. 4. Refresher training at regular intervals.	2	5	10
□ Accessing / working on underground services ○ Silted pit	➤ Technician ❖ Infection Major illness	1. Advised to not do the job and send back to manager for civils. 2. Make it part of the induction. 3. Ensure all technicians know the process	1	4	4
□ Accessing / working on underground services ○ Lifting pit cover	➤ Technician, ❖ Inappropriate manual handling Major musculoskeletal injury Major crush injury, foot / hand	1. Manual Handling training in induction. 2. Correct pit lifters/associated equipment provided. 3. PPE/Steel Toe Capped boots provided. 4. On site manual handling training. 5. Regular Refresher training at 3 yearly intervals	2	4	8

□ Location / Activity ○ Hazard	➤ Who might be harmed, ❖ The Hazardous Event The Consequences	Controls	Risk Rating		
			L	C	R
<input type="checkbox"/> Accessing / working on underground services <input type="checkbox"/> Cable	➤ Technician ➤ members of the public, ❖ Trip over cable Major injury	1. Keeping cable within working area. 2. Gate guards provided 3. Regular Refresher training at 3 yearly intervals.	2	4	8
<input type="checkbox"/> Setting up cable drum /pulling cables or ducting outside <input type="checkbox"/> Manual handling	➤ Technician ❖ Inappropriate manual handling Major musculoskeletal injury	1. Specific Manual handling training 2. Regular refresher training at 3 yearly intervals. 3. Trailer usage to hold the cable drum	3	4	12
<input type="checkbox"/> Use of air compressor <input type="checkbox"/> Noise	➤ Technician ❖ Excessive exposure Industrial noise induced deafness	1. Compressor used for short duration. 2. Compressor not sited immediately adjacent to the working area 3. Use of hearing protection	2	3	6
<input type="checkbox"/> Accessing / Working on underground services <input type="checkbox"/> Rats / Vermin	➤ Technician ➤ Infection ➤ Major Illness	1. Weils disease awareness training included in induction 2. Weils disease card issued, to be carried at all times 3. TBT on diseases to be given at regular intervals	1	5	5
<input type="checkbox"/> Use of air compressor <input type="checkbox"/> Fuel	➤ Technician ❖ Contact with fuel ❖ Fire / Explosion Dermatitis Catastrophic injury	4. Reserve fuel stored securely in sealed containers 5. Reserve fuel containers fitted appropriate nozzle for filling compressor (minimizing splash and spill)	2	3	6
			1	5	5
<input type="checkbox"/> Underground chamber / Confined space working <input type="checkbox"/> Gas <input type="checkbox"/> Unsecure chamber ladders	➤ Technician ❖ Explosive / oxygen deficient atmosphere ❖ Falls from height Catastrophic Catastrophic injury	1. Medium/high risk confined space training 2. Refresher confined space training every 2 years 3. Correct confined space equipment available (tripod, winch, harness, escape set) 4. Calibrated GDU provided 5. Gas testing/GDU usage training provided in induction and at regular intervals. 6. Utility provider phone number supplied to technician.	2	5	10
			3	5	15

<input type="checkbox"/> Location / Activity <input type="checkbox"/> Hazard	➤ Who might be harmed, ❖ The Hazardous Event The Consequences	Controls	Risk Rating		
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Review date	Carried out by:	Major Changes:
01/10/2019	Lee Meek	None
09/10/2020	Lee Meek	None
08/10/2021	James Alderson	None

Date of next review: 01/10/2022