

SWMS No 002	<b>SJD Electrical</b> Job Safety Analysis / Safe Work Method Statement					Page 1 of 7
SJD ELECTRICAL PTY LTD - ABN 53 127 802 608 - ACN 127 802 608 - ELECTRICAL LICENCE 68608 - QBCC LICENCE 1270514 - ARC LICENCE AU19801 - MOLEX LICENCE CIAU3372						
<b>Safe Work Method Statement Title: SWMS: 002 CONDUIT INSTALLATION (UNDERGROUND)</b>						<b>Date Created:</b> 00/00/16
<b>Project Name:</b>			<b>Person responsible for ensuring compliance with this SWMS:</b>			<b>Review Date:</b> 00/00/17
<b>Project/Client:</b>		<b>Job No:</b>	<b>Authorised By:</b>		<b>Revision No. 0</b>	
<b>Licences, Permits, Competencies Required: (tick items relevant to this task and site)</b>						
<input type="checkbox"/> Confined Space		<input type="checkbox"/> Work at Heights		<input type="checkbox"/> Excavation		<input type="checkbox"/> Hot Work
<input type="checkbox"/> White Card		<input type="checkbox"/> EWP		<input type="checkbox"/> Electrical License		<input type="checkbox"/> Radiation
				<input type="checkbox"/> Rescue and Resuscitation		<input type="checkbox"/> Network Access
<b>Common Hazards to Manage: (tick items relevant to this task and site)</b>						
<input type="checkbox"/> Manual handling		<input type="checkbox"/> Working at Heights		<input type="checkbox"/> Risk of Electric Shock		<input type="checkbox"/> Slips, Trips and Falls
						<input type="checkbox"/> Housekeeping
<b>HAZARD CLASSIFICATION MATRIX</b> <b>POSSIBLE RESULTS</b> Risk = Consequence x Likelihood			<b>Probability</b>			
			RARE A	UNLIKELY B	POSSIBLE C	LIKELY D
			ALMOST CERTAIN E			
Consequences	Catastrophic	5	Medium (M)	High (H)	High (H)	Extreme (E)
	Major	4	Medium (M)	Medium (M)	High (H)	Extreme (E)
	Moderate	3	Low (L)	Medium (M)	High (H)	High (H)
	Minor	2	Low (L)	Low (L)	Medium (M)	High (H)
	Insignificant	1	Low (L)	Low (L)	Low (L)	Medium (M)

<b>RISK RATING</b>	<b>ACTION REQUIRED (ALARP – As Low As Reasonably Practicable)</b>
<b>E = Extreme UNACCEPTABLE</b>	Intolerable risk Activity must not be undertaken prior to Management / CEO review of potential risk mitigation measures and a decision that risk is <b>ALARP</b>
<b>H = High risk</b> Only acceptable if <b>ALARP</b>	Implement strict control measures to reduce risk to an acceptable level. Activity must not continue until the level of risk is reduced to <b>As Low As Reasonably Practicable (ALARP)</b> and preferably Medium rating. Operations Manager and/or Project Supervisor approval of the risk controls is required.
<b>M = Medium risk</b> Undesirable	Specify, document and implement existing risk controls and additional management actions to reduce the risk to <b>ALARP</b> and <b>preferably Low rating</b> . Activity must not continue without Operations Manager and/or Project Supervisor approval.
<b>L = Low risk</b> Tolerable	Tolerable risk. Carry out activity

Basic PPE to be used

✓												
app												
<b>Other PPE:</b>												

Job Task #	Job Step	Potential Health, Safety and Environmental Hazards	PROBABILITY	CONSEQUENCE	RATING	Control Measures	PROBABILITY	CONSEQUENCE	RATING	PERSON(S) RESPONSIBLE
1	Planning and preparation	Non-compliance with current legislative requirements and company processes.	D	4	H	All personnel to complete site specific induction. All personnel to have completed company specific induction. Personnel are to hold the required licenses and certificates for the work, and be assessed as competent to use or operate equipment and plant. All personnel must read, understand and sign off on this SWMS. All personnel are given the opportunity to provide input into the content of this SWMS. Daily pre-starts will be held at the beginning of each shift. Any changes throughout the shift will be communicated prior to the commencement of the next task. A JSA is to be completed for any changes to the task. Ensure permit requirements are understood. A Risk Assessment has been carried out.	B	4	M	Work crew Supervisor
		Working outdoors with exposure to; <ul style="list-style-type: none"> <li>- UV / high temperatures causing heat stress / dehydration / sunburn</li> <li>- Fauna and insects causing bites and stings</li> </ul>	D	3	H	'Check ins' during extreme weather conditions. Comply with the Queensland Worksafe heat stress procedure. Ensure there is an area in the shade for rest (preferably Crib Facilities). Work Breaks are compulsory at nominated times (preferably during the hotter parts of the day) Drink adequate water amount of water. Use sun block for protection from sun. Use insect repellent (if applicable). Keep an eye out for fellow workers showing signs of fatigue, and report it to your supervisor. If you are feeling fatigued- talk to your supervisor.	B	3	M	Work crew

Job Task #	Job Step	Potential Health, Safety and Environmental Hazards	PROBABILITY	CONSEQUENCE	RATING	Control Measures	PROBABILITY	CONSEQUENCE	RATING	PERSON(S) RESPONSIBLE
		Interactions with other trades working in the vicinity; - Inadvertently cause hazardous situation including trips, slips, falls	D	3	H	Ensure other workers are informed and aware of all other trades working in the area  Communicate potential interactions during prestart  Install barricading and signage to delineate work area if required	B	3	M	Supervisor  Work Crew
		Unauthorized access to work area by other authorized personnel without correct PPE.	D	3	H	Follow all site rules and procedures.  Wear all mandatory PPE and task specific PPE.  If a hazard is identified in the work area – fix it immediately or if unable to do so, isolate the hazard and inform your supervisor immediately.  Site wide barricading to be installed to restrict access to unauthorized personnel.  Signage to be visible around all site and at all access points.  All visitors must report to site office before entering site.  All visitors to be escorted by a site inducted personnel member.	B	3	M	Supervisor  Work crew
		Poor ground conditions  Uneven, loose, wet or soft ground at the work site.	C	2	M	Inspect path of travel for any obstructions and remove them.  Daily site inspections prior to commencement of work activities and at the conclusion of each work day.  Regular housekeeping inspections including regular walk rounds to be conducted to ensure a clean and tidy work area.	B	2	L	Work crew
2	Work area preparation	Personal injury - - Cuts, strains, abrasions, burns - Possible eye injury - Dust inhalation (depends on surrounds – these tasks should not cause dust or fumes)	C	3	H	Authority and empowerment to Stop the Job.  Follow all site rules and procedures.  Ensure correct manual handling techniques are followed.  Wear all mandatory PPE and task specific PPE.  Communicate task clearly with all work crew members. Ensure a thorough understanding of expectations.  If a hazard is identified in the work area – fix it immediately or if unable to do so, isolate the hazard and inform you supervisor.  Work on flat surface where practicable  Secure all tools and/or equipment by lanyard or store in a toolbox/basket when on the work platform.	B	3	M	Work crew  Supervisor

Job Task #	Job Step	Potential Health, Safety and Environmental Hazards	PROBABILITY	CONSEQUENCE	RATING	Control Measures	PROBABILITY	CONSEQUENCE	RATING	PERSON(S) RESPONSIBLE
3	Check area for other services and confirm locations of any gas lines, power cables, telephone cables, water or sewer lines and tree roots.	Personal injury - <ul style="list-style-type: none"> <li>- Cuts, strains, abrasions, burns</li> <li>- Possible eye injury</li> <li>- Dust inhalation (depends on surrounds – these tasks should not cause dust or fumes)</li> </ul>	C	5	H	Inspect path of travel for any obstructions and remove them.  Daily site inspections prior to commencement of work activities and at the conclusion of each work day.  Regular housekeeping inspections including regular walk rounds to be conducted to ensure a clean and tidy work area.  Ensure permit is in place if required.	B	4	M	Work crew Supervisor
4	Check layout and mark out	Contact with overhead or underground services	C	5	H	Identify existing services - Dial Before You Dig, site services plans etc  Clearly mark out/identify existing known services	B	4	M	Work crew Supervisor
		Personal injury – <ul style="list-style-type: none"> <li>- Potential slips, trips and falls</li> <li>- Exposure to existing nails</li> </ul>	C	3	H	Ensure direct work area is clear and free from any potential trip hazards  All tools are to be stored appropriately for easy access and to avoid becoming a trip hazard  Work area to be check to ensure all exposed nails are removed  Dispose of all loose items and rubbish appropriately	B	3	M	Work crew Supervisor
5	Excavate trenches	Contact with unknown services	C	5	H	Trained and competent operators of earthmoving equipment  Guarding etc to be in place prior to plant arriving at the work area  Ensure three points of contact when climbing in/on plant  Exclusion zones to be implemented around known existing services  Spotter in place when exposing services  Plant Work Zone protocol established and controlled  Positive communications	B	4	M	Work crew Supervisor

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6	Lay conduit	Personal injury - <ul style="list-style-type: none"> <li>- Cuts, strains, abrasions, burns</li> <li>- Possible eye injury</li> <li>- Dust inhalation (depends on surrounds – these tasks should not cause dust or fumes)</li> </ul>	C	5	H	Keep a safe distance from open excavations Install barricading and signage to delineate work area if required. Eliminate plant that has the potential to reach exclusion zones. Conduit to be directly laid in the trench. Safe means of access/egress to excavations to be installed if required to enter trench. Wear all mandatory PPE and task specific PPE. Minimise manual handling where possible.	B	4	M	Work crew Supervisor
7	Restore ground to client's specifications	Personal injury - <ul style="list-style-type: none"> <li>- Cuts, strains, abrasions, burns</li> <li>- Possible eye injury</li> <li>- Dust inhalation (depends on surrounds – these tasks should not cause dust or fumes)</li> </ul> Contact with overhead or underground services	C	5	H	Keep a safe distance from open excavations Install barricading and signage to delineate work area if required. Eliminate plant that has the potential to reach exclusion zones. Wear all mandatory PPE and task specific PPE. Minimise manual handling where possible.	B	4	M	Work crew Supervisor
8	Completion of task	Slips, trips, and falls	C	4	H	Leave work area tidy. Store equipment in authorised access area (e.g. locked storage facility) Report any damage/defect to supervision and tag out any faulty equipment.	B	4	M	Work crew

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Personnel Qualifications and Experience Required	Personnel Duties and Responsibilities		Training Required to Complete Work
	Supervisor	All Personnel	
Personnel will need to be trained and <b>confident</b> .	Empower all personnel to <b>STOP the JOB</b> if required to do so.	All personnel to maintain tidy work area on site at all times. Personal Protective Equipment (PPE) to be worn at all times on site.	Supervisor to be trained in risk identification, assessment and control e.g. Job Safety Analysis (JSA).
Appropriate industry and site specific induction.	Supervisor to carry out daily inspections of work site for hazards.	Ensure housekeeping is maintained throughout the task to avoid the risk of injury.	<b>Training</b> in the use of specific plant. Inspection and maintenance of equipment to be conducted (where applicable) for the type of equipment / plant to be used.
Must be a Licensed Electrician to carry out the works.	Ensure appropriate permits are in place for the task (if applicable).	Barricading to be used as appropriate to protect others from working below elevated work.	

Engineering Details / Certificates / Australian Standards	Referenced – Codes of Practice / Regulations / Legislation
AS 3000 Wiring Rules AS/NZS 3012:2010 Electrical Installations – Construction and Demolition Sites. AS/NZS 3017 - Electrical installations - verification guidelines AS/NZS 4826 – Safe working on or near low voltage electrical installations and equipment	Work Health and Safety Act and Regulations 2011 Electrical Safety Act 2002 and Electrical Safety Regulations 2013 Electrical Safety Code of Practice 2013- Managing Electrical Risks in the Workplace Electrical Safety Code of Practice 2010 – Working Near Exposed Live Parts Hazardous Manual Tasks Code of Practice 2011 Managing risks of Plant in the workplace Code of Practice 2013
Plant / Equipment Required (Mobile or Static)	Maintenance Checks / Calibration Intervals
Hazard Identification to be conducted for plant used e.g. Excavator, ditch switch	Maintenance to be conducted on plant used e.g. Excavator, ditch switch

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This SWMS has been developed in consultation and cooperation with employee / workers and relevant employer / persons conducting business or undertaking PCBU. I have read the above SWMS and I understand its contents. I confirm that I have the skills and training, including relevant certification to conduct the task as described. I agree to comply with safety requirements within this SWMS including risk control measures, safe work instructions and Personal Protective Equipment.

[illegible]