



Al Seal Contracting & Trading Co. (WLL)

RISK MANAGEMENT SYSTEM

RISK ASSESSMENT

Document Reference

ALSEAL/HSE/CTS-FORM-022

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Al Seal Contracting Risk Management System

Risk Assessment-Coring of Manhole

Contract number and title: COMMUNICATIONS TOWERS AT AL RUWAIS, AL GHASHAM AND HALUL ISLAND, Q-406-01	RA number:	Element of work: Coring of Manhole	Risk assessment	Date: 14/04/2018
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Severity	Likelihood		Evaluation of risk			
NO INJURY MINOR	1	RARE	1	12 - 25	High	Action required urgently to control the risk, further resources may be required, work must stop immediately
MODERATE	2	UNLIKELY	2			
MAJOR	3	OFTEN	3	5 - 10	Med	Action required to control the risk, interim measures may be necessary in the short term, able to proceed with work under supervision
FATALITY	4	LIKELY	4			
	5	EXPECTED	5	1 - 4	Low	This represents a low risk, although control measures must be maintained

Job Steps	Hazards	Who might be harmed? Employees Contractors Public Others Environment	How?	Initial risk?			What controls are required?	Residual risk?			Action by
				Severity	Likelihood	Risk Rating		Severity	Likelihood	Risk Rating	
Constructi on Site	Activities Ignorance of site rules	All Construction Personnel	Physical & Mental harm from construction activities	5	5	25	<ul style="list-style-type: none"> HSE induction to be conducted to all personnel engaged prior to start of any work; Activity Hazard Analysis (AHA) to be furnished including equipment entry permit request, person entry permit Start briefing prior to work activities. 	2	2	4	Site Engineers and Supervisors



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	Language	All	Non English speakers not being able to understand work instructions or emergency signs etc.	4	5	15	<ul style="list-style-type: none"> Where this situation exists, cause adequate levels of communication to be achieved through a suitable interpreter. The persons concerned must not commence work until a suitable interpreter is available. Cause the site rules, emergency signs and other relevant signs to be communicated in languages that reflect the site operative's needs. 	2	2	4	Site Engineers and Supervisors
	Pre-task briefing and inspection	All Workforce	The work force doesn't know the pre-task briefing therefore doesn't understand the potential dangers and control measures to be implemented.	3	4	12	<ul style="list-style-type: none"> Ensure that the pre-task briefing is given out in a language understood by the workforce, have it translated. Ask question regarding the briefing to get feedback from the staff, this ensures full comprehension. Issue any required PPE and replace PPE that has signs of defect. PPE must include both hearing protection as well as dust inhalation protection. 	2	2	4	Site Engineers and Supervisors
	Dust and air debris	Persons involved in activities and others around the working areas	Risk of eye injuries	3	4	12	<ul style="list-style-type: none"> Workshop facilities to have eye wash facilities in place. Eye wash stations will be placed at strategic points around site. Light eye protection will be mandatory for all staff & operatives. Roads and haul roads will be damped down as and when required 	2	2	4	Site Engineers and Supervisors
	Manual Handling	Operatives	Hand & back injuries, heat stress	4	3	12	<ul style="list-style-type: none"> Manual handling training, not lifting loads beyond the capabilities of the operative, use of correct hand protection. Supervision 	2	2	4	Site Engineers and Supervisors



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	House Keeping – material, waste.	All	Slips, trips & falls	4	4	16	<ul style="list-style-type: none"> Regular housekeeping inspections, keeping area well prepared and free from debris, materials, cables and waste. 	3	2	6	Site Engineers and Supervisors
	Ground Conditions & Access	All	Trips and falls caused by poor, general access around the site and to the facilities and accommodation	4	5	20	<ul style="list-style-type: none"> All accesses, where people have to walk, to be well defined, properly constructed and maintained in good condition. Suitable steps to be provided and maintained, where appropriate. Where appropriate, because of the need of access during darkness, cause suitable levels of lighting to be provided and maintained. 	1	3	3	Site Engineers and Supervisors
	Control of Plant	Plant Operators	Badly designed or defined haul roads or poorly maintained surfaces leading to a loss of operator control and mechanical damage to plant.	4	5	25	<ul style="list-style-type: none"> Haul road construction to avoid unnecessary cambers or bends and the line of the road to be well defined, where appropriate. Running surface to be maintained in good condition. 	1	4	4	Site Engineers and Supervisors
Ground Investigation	Persons	Surveyors, Engineers & other workers on site	Being struck by moving plant / equipment	5	3	15	<ul style="list-style-type: none"> Competent & certificated plant operators to operate all items of plant. Plant certification to be provided prior to commencing on site, segregation of plant & operatives with barriers & signage, operatives briefed not to walk / stand around rear of machinery or items of plant. Operatives instructed to maintain eye contact with plant operators at all times. Operatives to wear high visibility vests & safety helmets, safety footwear, light eye protection, overalls. mobile phones not to be used whilst operating equipment. 	2	2	4	Site Engineers and Supervisors



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Hydro & Air Testing	hand tools / power tools	Tool operators	Due to unapproved tools (unsafe), unauthorised operatives and poor supervision	4	5	20	<ul style="list-style-type: none"> • Before handing out tools, visual inspection will be carried out, by competent electrician. • hearing protection shall be used if exposed to noise levels of 85 db(a) or above • Competent operators shall handle the tools & competent supervision will be ensured. • All tools used will be well maintained and defect free. • Electrically operated tools shall comply with established safety requirements- double insulated / colour coded / properly grounded. • appropriate PPE 	2	2	4	Site Engineers and Supervisors
	Use of Ladders	Operatives involved in the task	<ul style="list-style-type: none"> • Falls of persons from ladders. • Collapse of ladders. • Dislodgement of ladders. • Contact with, or arcing from, power sources. 	3	4	12	<ul style="list-style-type: none"> • Only ladders of class 1 (industrial heavy duty) or class 2 (light trade) ladders, as appropriate, shall be used. • Ladders shall carry identification and shall be free from defect. Inspection shall be carried out before use and at the regular intervals specified in the Company procedure. • Prior to erection, the erection site shall be surveyed and note taken of any visible hazard such as loose materials, insecure structures or exposed power sources. • Erection of ladders shall only be carried out by fully instructed and trained operatives. 	2	2	4	Site Engineers and Supervisors



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						<ul style="list-style-type: none"> • Ladders shall always be erected on firm level standings. Where the base is not level, then suitable and secure packing will be provided. • Ladders shall be set at an angle of 750 (4 vertical to 1 horizontal). • Ladders shall always be secured on both stiles, except where this is impracticable on ladders less than 5 metres which may be footed for work of short duration. • Ladders shall not be rested against fragile or flexible supports, such as plastic guttering. • Ladders shall extend 1.05 metres above the landing place, except where an alternative adequate handhold is provided. • For scaffold access ladders, the preferred option is that they be erected internally. Where this is impracticable, the ladder shall be erected parallel and close to the scaffold. • Except in specific circumstances of short duration, work should not be carried out from ladders. • Only one person is permitted on a ladder at any one time. That person should have both hands free to grip the ladder. • Loads should not be carried up ladders; suitable material handling methods should be provided. • Suitable pouches, bags or belts should be 				
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							<ul style="list-style-type: none"> provided for the carrying of tools. Maker's instructions regarding the use of extending ladders should be available on site should always be observed by those erecting ladders. Where initial stage access ladders are left erected out with working hours, then suitable and effective steps shall be taken to bar unauthorised access by any person. 				
	Use of vertical drilling machines	Operatives and others who involve with the activities.	<ul style="list-style-type: none"> Entanglement of hair or loose clothing Spinning of work piece Cutting of skin by contact with drill or hit to others (nearby) 	4	4	16	<ul style="list-style-type: none"> Consideration will be given to the noise produced by the machine, especially when drilling sheet metal. This will depend on speed on the drill and the material. Noise assessments may be necessary. Guards or trip devices will be fitted to machines before being brought into use. Means of emergency stopping of machines will be fitted. Physical: First-aid facilities will be provided as necessary. Guards and/or trip devices will be in place before work starts. Any defective guards will be reported. Suitable eye protection will be used by personnel using drilling machines. The work-piece will be held securely in a vice or similar device, and the vice secured to the machine bed. The chuck key will be removed before the drill is switched on. Loose clothing (including 	2	2	4	Site Engineers and Supervisors



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							<p>sleeves and ties) will be removed and long hair covered before the machine is switched on. Electrical supply will be fitted by a competent electrician, and a check will be made every after three month on its condition. The result will be recorded. Warning notices in all relevant languages to be displayed where necessary.</p> <p>Managerial/Supervisory:</p> <ul style="list-style-type: none"> • Only personnel trained to do so will be permitted to operate drilling machines. The operators will be reminded to keep floors clear of obstructions and of the need to wear PPE required. Notices requiring eye protection and restricting the use of machines to trained personnel will be clearly displayed. A table of recommended drill speeds for the drill size and material will be available to all drill operators. • Management will be trained in the safe use of drilling machines. Personnel using drilling machines will be briefed on the use of the machine and the use of the needs for guards and tripping devices, and the potential for injury at the machine. 				
	Proceeding Works	All Workforce and others who near by	<ul style="list-style-type: none"> • Personal injury from trip or fall on uneven ground • Oil Spillage. • Injury from overturning machinery on unstable or uneven ground. 	5	4	20	<ul style="list-style-type: none"> • Care to be taken when climbing into or leaving machinery. • Always wear proper PPE. • One vehicle will be made available for the emergencies • Do not operate machinery on ground 	2	2	4	



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			<ul style="list-style-type: none"> • Person too close to machine struck /crushed by excavator. • Eye injury from dust. • Hearing damage from prolonged noise of machinery. • Fall from height 				<p>conditions not suitable for that particular equipment or task.</p> <ul style="list-style-type: none"> • Supervisor to ensure all personnel & onlookers are clear of machine prior to starting excavation work. • Only certified operators to operate machinery. • Provide proper access and ladders for deep excavation. • Operators & others to wear hearing & eye protection when machinery in use. • Use of Flagmen / Bank men is recommended when machine are backup • Workers to wear safety hat and to use inspected ladders 				
	Handling of Equipment & structure		<ul style="list-style-type: none"> • Heavy loads, Heavy equipments 				<ul style="list-style-type: none"> • All the rigging / lifting equipment will be tested & certified prior to use. And colour coded. Riggers & flag men will be deployed to strictly monitor the movement of the equipment. barrication of the lifting area will be done to avoid the entry of unauthorized persons with proper signage's are provided 				