RISK ASSESSMENT Maintenance, Testing and Commissioning of Fire Alarm System							
Department	Document Ref. No.	Issue Date	Revision				
QHSE	QHSEDOCS-OSH-RA-LW-00	00-00-0000	00				

Company Name:	ABC	Prepared by:	XYZ
Activity:	ctivity: Maintenance, Testing and Commissioning of Fire Alarm System		DEF

SR.	Activities	Hazard Identified	Who Might Be harmed?		Risk Le	evel	Control Measures	R	esidu Risk		Responsible
				ī	S	R		L	S	R	Person
1.	Pre-Task briefing	Personal injury, fatality resulting from working with hand tools and lines under pressure, and electrocution	Project Engineer Supervisors Labourers Operators Environment Adjacent community Asset/Machinery Structure	3	3	9	 Permit to be obtained and the activity from the Main contractor should be communicated in advance. Arrange toolbox meetings with the workforce, in which people are involved in testing and commissioning activity before starting the work and keep the proper record. Appropriate tools to be used. All work is carried out according to the method statement and risk assessment. The area should be barricaded and sign in multi-language are to be posted. All the test equipment and pressure gauges are to be calibrated. Wear appropriate PPE. Check all the installations are done as per the approved drawings. The drainage system/drain line is to be connected at least in test to avoid water flooding and connected to the nearest drain/trench. Proper supervision is maintained all the time 	2	2	4	

	Page 2 of 9									
	Maintenance, Testing and Commissioning of Fire Alarm System									
	Department	Document Ref. No.	Issue Date	Revision						
	QHSE	QHSEDOCS-OSH-RA-LW-00	00-00-0000	00						

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Activity:	Maintenance, Testing and Commissioning of Fire Alarm System	Approved by:	DEF

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2.	Access And Egress	Slip, Trip and Falls	Project Engineer	3	3	9	Permit to be obtained and communicated	2	2	4	
			Supervisors				to other services in advance.				
			Labourers				 Proper Access to be provided to the 				
			Operators				maintenance and testing area				
			Environment Adjacent				 Access to the area is made clean and free 				
			community				from obstacles.				
			Asset/Machinery				 No unnecessary material is kept in the 				
			Structure				vicinity of the Maintenance and test area.				
3.	Prestart Checks	Personal injury resulting from	Project Engineer	3	3	9	 Obtain the correct PTW. (Testing & 	2	2	4	
		incorrect work methods and	Supervisors				Commissioning permit from the Main				
		incorrect fittings.	Labourers				contractor)				
		Personal injury resulting from	Operators				 Inspect all the testing equipment for 				
		Faulty Equipment, and	Environment Adjacent				compatibility before starting the work.				
		incorrect work methods.	community				The Engineer must give proper instructions				
		Equipment damage, a	Asset/Machinery				about the testing & Commissioning				
		personal injury resulting from	Structure				procedures.				
		the blow out of equipment					 Lock out Tag out procedures are to be 				
		under test					followed.				
		ander test					 Barricade the area and keep proper signage. 				
							 Close supervision is to be maintained. 				
							 Must be wearing Proper PPEs. 				
							 Critical Areas must be adequately provided 				
							with lighting arrangements if the testing				
							and maintenance continue during the night				
							shift.				
							Notify them about the testing and				
				1			Commissioning of the concerned people.				

RIS	Page 3 of 9								
Maintenance, Testing and Commissioning of Fire Alarm System									
Department	Document Ref. No.	Issue Date	Revision						
QHSE	QHSEDOCS-OSH-RA-LW-00	00-00-0000	00						

Company Name:	ABC	Prepared by:	XYZ
Activity:	Maintenance, Testing and Commissioning of Fire Alarm System	Approved by:	DEF

4.	Poor lighting in the testing & Commissioning area	Personal injury Slip and trip	Project Engineer Supervisors Labourers Operators Environment Adjacent community Asset/Machinery Structure	3	3	9	 No unauthorized personnel should be allowed to remain in the vicinity of the testing area. Task area lighting should be provided wherever area lighting is obstructed, or illumination found adequate. Toolboxes talk to be conducted and informed about the procedure to be followed during power cut/failure timing. 	2	2	4	
5.	Manual Handling	 Back pain Limb injuries Strains & Sprains Cuts & Bruises Property damage. Risk of injury or fatality to operatives or other human beings nearby. 	Project Engineer Supervisors Labourers Operators Environment Adjacent community Asset/Machinery Structure	3	9	9	 Proper access and egress should be provided. Secure the load before lifting. All operatives must be aware of manual handling hazards. Proper information and training are required. Proper lighting arrangements (If the area is dark or working at night-time). Proper PPE must be always worn (including gloves) If the manual is unavoidable then the physical capabilities of the persons involved must be taken into consideration and adequate numbers to be in place and kinetic lifting technique to be always used. The area where the lifting is taking place 	2	2	4	

				RIS	SK ASSESSME	NT				Page 4 of 9					
			Maintenan [,]	ce, Testing	and Commissioning	of F	ire A	larm	System	_					
			Department		Document F	Ref. N	lo.		Issue Date	Revision					
			QHSE		QHSEDOCS-OSH-	-RA-LW	/-00		00-00-0000	00					
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	Company Name:	:	ABC						Prepared by:	XYZ					
	Activity:		Maintenance, Testing	and Comm	nissioning of Fire Ala	ırm S	yste	m	Approved by:	DEF					
6.	Working with electrical panel	SpaElection	etrocution rks tric shock fatality	Project Eng Supervisor Labourers Operators Environme community Asset/Mac Structure	s nt Adjacent	3	5	15	hazards. When manual hand be evenly distribute involved in the liftin lifting devices (such should not be used. The physical capabil involved in manual hassessed. Isolation certificates (client-main contract through (the client-rough (the client-rough (the client-rough) (the	ities of all persons handling are to be shall be obtained from tor). should be isolated main contractor). sipment must be efore starting work. ocedures are to be suppetent electricians are in handle the Electrical properly secured. sons with a permit to aged for testing work. It is to be maintained ctivity. It is while working on	2	2	4		

	Page 5 of 9									
	Maintenance, Testing and Commissioning of Fire Alarm System									
	Department	Document Ref. No.	Issue Date	Revision						
	QHSE	QHSEDOCS-OSH-RA-LW-00	00-00-0000	00						

Company Name:	ABC	Prepared by:	XYZ
Activity:	Maintenance, Testing and Commissioning of Fire Alarm System	Approved by:	DEF

			I								
7	Use of Power and	 Injury to the person 	Project Engineer	3	5	15	 All power tools must be insulated and 	2	3	6	
	Hand Tools	• Eye & Face risk	Supervisors				guarded, and PAT tested.				
		 Bruises and Cuts 	Labourers				 All electronic measuring devices should be 				
		Electrocution	Operators				calibrated.				
		• fire	Environment Adjacent				 Regular maintenance and check-up must be 				
		 Property damage. 	community				carried out.				
		 Risk of injury or fatality to 	Asset/Machinery				 Hand tools must be maintained. 				
		operatives or another human	Structure				 Continuous training and education to 				
		being nearby.					workers.				
							 Right tools for the right job. 				
							 Trained operatives and supervisors. 				
							Defective tools must be tagged out and				
							removed from the site.				
							 Inspection should be carried out on all tools 				
							in use.				
							 Proper supervision must be maintained. 				
							Correct PPE must be worn as required.				
							Must check tools before each use.				
							 Must use only 110 volts for power tools. 				
							All tools are to have Gloves & Handles fitted				
							where applicable.				
							• • •				
							Ensure guards or auxiliary grips must not be removed from the power band tool				
							removed from the power hand tool.				
							Ensure appropriate electrical cable				
							management, i.e., the electric cable should				
							not be laid into access or hung on face or				
							neck level.				

RIS	SK ASSESSMENT		Page 6 of 9
Maintenance, Testing	and Commissioning of Fire Alarm	System	
Department	Document Ref. No.	Issue Date	Revision
QHSE	QHSEDOCS-OSH-RA-LW-00	00-00-0000	00

Compa	ny Name:	ABC	Prepared by:	XYZ
Activity	/ :	Maintenance, Testing and Commissioning of Fire Alarm System	Approved by:	DEF

8	Working on electrical systems (contact with electricity).	Electrocution, fatality, serious burn injuries etc.	3	5	15	 PTW system should be followed. Isolate the system before carrying out the job to mitigate the hazards. Isolation certificates shall be obtained from (client-main contractor). Follow the Lockout & Tag out procedures 	2	3	6	
9	Use Of Step Ladder	Personal Injury Fall from height. Falling Materials Slip, Trip and Fall Personal Injury Fall from height. Falling Materials	3	9	9	 All step Ladder must be inspected periodically and recorded. The step ladder must be used according to SPI. The tag must be provided after the inspection is made and colour coding must be given accordingly. Ensure stepladders are Positioned on level ground and used following the safety instructions. Only one person is to use the ladder at one time and one operative must be held the ladder from the ground be sure to clear the ground area around the ladder before climbing. Do not carry any material while climbing the ladder. Do not stand on the top three steps of the ladder. Safety harnesses must be worn and hocked properly at above shoulder Heights at the strong anchor point. 	2	2	4	

	SK ASSESSMENT		Page 7 of 9
Maintenance, Testing			
Department	Document Ref. No.	Issue Date	Revision
QHSE	QHSEDOCS-OSH-RA-LW-00	00-00-0000	00

Company Name:	ABC	Prepared by:	XYZ
Activity:	Maintenance, Testing and Commissioning of Fire Alarm System	Approved by:	DEF

						 Do use a ladder at openings and edges and never live electrical cable. 				
10	In case Emergency	 Slip, trip Fall Struck by 	2	3	6	 In case of emergency the Proper access and egress to be maintained Emergency No. are to be posted. Toolboxes talk to be given to all the team members I and procedures are to be explained in case of any emergency. The spill control team shall be ready and available for cleaning the spill in the event of leakage in the network or during the activation of the system. Fire extinguishers are to be placed in the activity area 	2	2	4	
11	House Keeping at the workplace before and after the task.	Housekeeping, Fire, Slips, trips, and falls.	2	3	6	 Remove all waste from the work area during and after completing the activity. Provide a proper Spill kit from the testing area. Supervisors to check work areas should be clean before and after the activity. 	2	2	4	

RIS	SK ASSESSMENT		Page 8 of 9
Maintenance, Testing			
Department	Document Ref. No.	Issue Date	Revision
QHSE	QHSEDOCS-OSH-RA-LW-00	00-00-0000	00

Company Name:	ABC	Prepared by:	XYZ
Activity:	Maintenance, Testing and Commissioning of Fire Alarm System	Approved by:	DEF

Risk Rating Matrix										
	Likelihood		Conseque	ences						
	Likelinood	Rare (1)	Minor (2)	Moderate (3)	Major (4)	Catastrophic (5)				
5	Almost Certain	5	10	15	20	25				
4	Likely	4	8	12	16	20				
3	Possible	3	6	9	12	15				
2	Unlikely	2	4	6	8	10				
1	Rare	1	2	3	4	5				

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RIS	SK ASSESSMENT		Page 9 of 9
Maintenance, Testing			
Department	Document Ref. No.	Issue Date	Revision
QHSE	QHSEDOCS-OSH-RA-LW-00	00-00-0000	00

Company Name:	ABC	Prepared by:	XYZ
Activity:	Maintenance, Testing and Commissioning of Fire Alarm System	Approved by:	DEF

1-3	4-12	15-25
Acceptable	Tolerable	Not Acceptable

Risk Likelihood Description			
Rating	Description	Likelihood of Occurrence	
1	Rare	Highly unlikely, but it may occur in exceptional circumstances. It could happen, but probably never will.	
2	Unlikely	Not expected, but there is a slight possibility it may occur at some time.	
3	Possible	The event might occur at some time as there is a history of frequent occurrence at the site/project/or similar institutions.	
4	Likely	There is a strong possibility the event will occur as there is a history of frequent occurrence at the site/project/or similar institutions.	
5	Almost Certain	Very Likely. The event is expected to occur in most circumstances as there is a history of regular occurrence at the site/project/or similar institutions.	