



RISK ASSESSMENT FOR ELECTRICAL PRESSURE TESTING

Controlled Document

Reference No.:	HSE DOCUMENTS-OSHMS-RA-FORM-00
Effective Date:	February, 2023
Last Review:	February, 2024
Version No.:	00

Activity: Electrical Pressure Testing

Assessed by:

Reviewed by:

Activity	Hazard	EVALUATION			Control Measures and Actions	RE-EVALUATION			Action By
		C o n s e q u e n c e s	L i k e l i h o o d	L i k e l i h o o d		Co ns eq ue nc es	L i k e li h o o d	Lik eli ho od	



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Pressure Testing	Slip, trip, and fall at a different level.	4	3	12	- Before entering high places, make sure they have the necessary collective protections to prevent falls, and if this is not the case, report it to your superior; - Make sure the edges of shutter work, gaps, and any different levels are protected with railings, safety nets, fencing with signs or similar; - All railings must be rigid, be at least 95 cm. in height, and be provided with an intermediate bar and skirting. - Work over 1.8 meters high, use a harness; - SCAFFOLDING must: - Be fixed to prevent undesired movements - Checked before use to make sure that it is in optimal state - Have railings and skirting for heights of over meters - Have a separation of 30 cm at most from the facade - Have crosses on either side - Have railings of 95 cm on the working platforms, with intermediate bars and skirting; - The workers must follow the Method Statement and the preparation induction.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer
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	Slip, trip, and fall at the same Level.	4	3	12	1. Site induction and wear PPE; 2. Whenever there is the need to move heavy weight parts, perform the work with two or more workers; 3. Check the stability of the materials before completing the work; 4. Manual handling of loads must be performed correctly; 5. The maximum manual loading weight shall not exceed 25 Kg; 6. The workers must follow the Method Statement and the preparation induction; 7. Maintain tidiness and cleanliness in the whole of the work area: passages clear and areas used for gathering materials; 8. Store all materials correctly and in the right place.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer
Pressure Testing	Falling objects by collapse.	4	3	12	1. Site induction 2. Do not stand under suspended loads. 3. Always ensure hooks with their safety latch. 4. Always check the state of cables, ropes, slings, etc. 5. Make sure materials are stored correctly.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer
	Fall of objects by manipulation.	4	3	12	1. Always ensure hooks with their safety latch. 2. Always check the state of cables, ropes, slings, etc. 3. Do not gather material on the edge of shutter work. 4. Do not leave tools, equipment, or materials in the working platforms of the scaffolding and/or mobile machinery.	1	3	3	Project Manager/engineer/Foramen QHSE Engineer
	Crash against stationary objects.	4	3	12	1. Mobile machinery drivers must have a license 2. corresponding to the machine he/she is using 3. Notice any stationary object properly.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer

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	Shock against mobile objects.	4	3	12	1. Vehicle ways will be well-defined and delimited 2. Work areas will be well-lighted. 3. Safety distances about mechanism working ranges will be respected.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer
	Entrapment by/between objects.	4	3	12	1. All the mobile elements of the machines must be protected by the manufacturer. 2. Machinery maintenance works should be done with the engine cut-off.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer
	Entrapment by vehicle rollover.	4	3	12	1. Mobile machinery driver must have the license corresponding to the machine he/she is using 2. All times respect the mobile machinery limits. 3. Respect the speed limit at work.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer
	Run-ins or blows with vehicles.	4	3	12	1. Respect all signs, particularly in the areas and routes used for vehicles to pass and those reserved for pedestrians. 2. Enter the site through a defined entrance. 3. Use vehicles only if you are authorized to do so and follow the instructions received for suitable handling. 4. Use reflecting jackets to guarantee correct visibility. 5. Check and respect all vehicle reversing acoustic signals.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer
	Electrical contacts.	4	3	12	1. It is forbidden to manipulate any electrical connection box 2. Only trained and qualified workers can do electrical work. 3. All worn or peeled wires must be repaired immediately. 4. Any anomaly in an electrical installation should be reported. 5. Do not use electrical tools with wet hands or wet gloves. 6. If these are being carried out, these should be announced and notified with their corresponding WP and their special safety measures.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer

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	Thermal contacts.	4	3	12	1. Use appropriate personal protection equipment. 2. Do not carry flammable materials (matches, lighters) during welding operations.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer
	Extreme meteorological conditions.	4	3	12	1. Avoid working at high wind speeds 2. It is forbidden to work with energized lines on thunderstorms and periods of rain.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer
	Ergonomic and psychosocial risk.	4	3	12	1. Shifts must be set to ensure that the worker rests. 2. Do an annual medical examination for all workers. 3. Keep good interpersonal and professional relationships with the workers. 4. Keep a high Qualitative, Environmental and 5. Security levels in the company through ISO 6. Certificates.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer
	Blows/cuts with objects or tools.	4	3	12	1. Use quality tools according to the type of work to be carried out. 2. Properly instruct personnel on the use of each type of tool. 3. Use gloves when handling sharp tools. 4. Perform regular maintenance of the tools (repair, sharpening, cleaning, etc.). 5. Periodically check the condition of the handles, insulating coatings, etc. 6. Store and/or transport the tools in boxes, tool bags, or appropriate panels, where each tool has its place.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer
	Fire/explosion.	4	3	12	1. It is forbidden to make fire at work 2. It is forbidden to smoke at work 3. Have fire extinguishers available on the site(carbon dioxide fire extinguisher and polyvalent powder); 4. Learn about electrical work procedures if you 5. perform this kind of operation; 6. The workers must follow the Method Statement and the preparation induction.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer



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Table

Pressure Testing	Overexertion.	4	3	12	1. Use manual and power tools only for their specific purposes. 2. All faulty tools must be put out of use. Do not carry tools in your pockets, but on the specific belts for them. 3. When you are not using them, leave them in places where they cannot cause accidents. 4. Plan de works to be done before starting them to avoid improvisations. 5. Avoid useless efforts, use mechanics tools, and request help when punctually have to move some heavy objects. 6. Keep your back straight, and avoid forced postures and trunk turns. 7. To lift loads, bend the knees without bending the back and lifting them by stretching the knees.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer
	Projection of fragments or particles.	4	3	12	1. Site induction & wear PPE; 2. Respect the manufacturer's instructions for the tools and equipment. 3. Replaces tools in poor condition with others that are in perfect condition and installs anti- projections elements always when it is necessary. 4. Do not use compressed air to de-dust or clean clothes or other objects.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer
	Radiation exposure.	4	3	12	1. Respect all signs indicating RADIATION;-Don't cross barriers with RADIATION signs; 2. Ask the Site Manager, Supervisor, and/or SHEE officer if you doubt RADIATION signs and/or affected areas.	1	3	3	Project Manager/Engineer/Foramen QHSE Engineer

Rating of Likelihood of Occurrence

S. No.	Descriptor	Likely Frequency	Probabil ity
1.	Frequent /Almost Certain	Occurs frequently	5
2.	Often	Occurs several times per year	4

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3.	Likely	Has occurred more than once per year	3
4.	Possible	Has occurred once per year	2
5.	Rare	Never occurred	1

Table II: Rating of Severity of Consequence

Area impacted	Health & Safety Consequences				
	Insignificant (Score = 1)	Minor (Score = 2)	Moderate (Score = 3)	Major (Score = 4)	Catastrophic (Score = 5)
Human Health and Safety	Minor injuries, which may require self-administered first aid. Injured personnel can continue to perform normal duties.	Injuries requiring on-site treatment by a medical practitioner. Personnel unable to continue to perform duties.	Severe injuries requiring off-site treatment by medical practitioners or immediate evacuation to hospital. Potential long-term or permanently disabling effects.	Single fatality.	Multiple fatalities.

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Production Loss	Incident event without causing production loss.	Production loss or delay of up to one week.	Production loss or delay of one week to one month.	Production loss or delay for over one month.	Loss of license to operate or ability to produce indefinitely.
Total Cost of Impacts or Incident Event	Financial loss (compensation, fines, cost to repair, plant damage) of less than \$ (Amount).	Financial loss (compensation, fines, cost to repair, plant damage) of \$ (Amount).	Financial loss (compensation, fines, cost to repair, plant damage) of \$ (Amount).	Financial loss (compensation, fines, cost to repair, plant damage) of \$ (Amount).	Severe financial penalties or legal liabilities. Financial loss (compensation, fines, cost to repair, plant damage) of greater than \$ (Amount).

Table-III: Risk Rating Matrix

RISK ASSESSMENT MATRIX		Severity of Consequence				
		Insignificant (1)	Minor (2)	Moderate (3)	Major (4)	Catastrophic (5)
Likelihood	Rare (1)	1	2	3	4	5
	Possible (2)	2	4	6	8	10



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<i>L i h o o d o f O c c u r r e n c e</i>	Likely (3)	3	6	9	12	15
	Often (4)	4	8	12	16	20
	Frequent/ Almost Certain (5)	5	10	15	20	25

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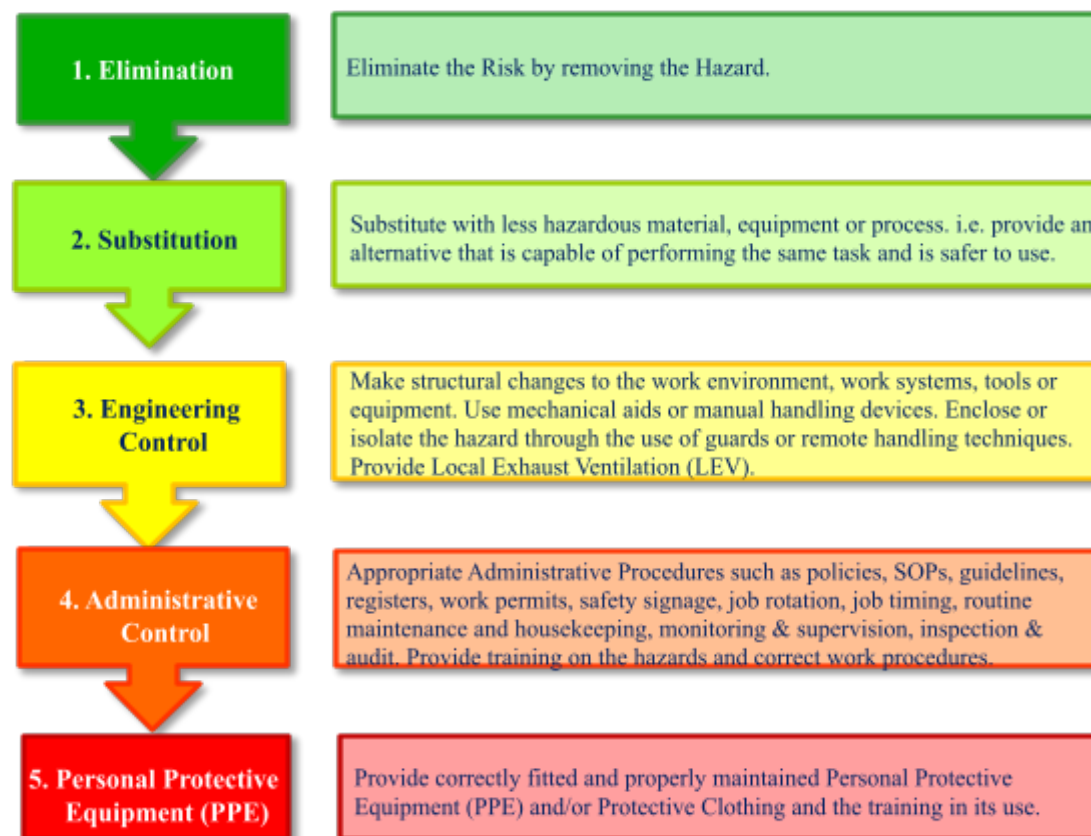
Table-IV: Risk Categorization & Prioritization

Risk Categorization & Prioritization		
Risk Factor	Risk Category	Action Required
15 – 25	Extreme Risk	Unacceptably High Activity or industry should not proceed in its current form.
8 – 12	High Risk	Unacceptably High Activity or industry should be modified to include remedial planning and action and be subjected to detailed HS impact assessment
4 – 6	Moderate Risk	Acceptable but must be managed at the ALARP Level Activity or industry can operate subject to management and/or modification
1 – 3	Low Risk	Acceptable without further action required No immediate action is required unless escalation of risk is possible

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Figure 1: Hierarchy of OSH Control Measures *(in the order of preference)*

(* Controls identified may be a mixture of the hierarchy to minimize the probability and/or severity of the risk)



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