



RISK ASSESSMENT

(ELEVATOR EXAMINATION AND WEIGHT TESTING)

Document No: ABC-HSE-013-FRM

Date of issue: 01-July-2015

Revision:00

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PROJECT / LOCATION:	DATE: 00-00-2024	DATE OF NEXT ASSESSMENT
Job No.		00-00-2025

TASK / ACTIVITY
ELEVATOR EXAMINATION AND WEIGHT TESTING

No.	Activities	Hazards	Risks	Risk Level			Risk Control Measures	Residual Risk			Remarks
				P R	S	E/H/ M/L/ N		P R	S	E/H/ M/L/N	
1	Working at height	<ul style="list-style-type: none">Falls from heightDropped objectsUnsecured harness or fall arrest system failureInstability of working platformInsufficient edge protectionLimited visibility or poor lightingInadequate access/egressWeather conditionsFatigue and loss of balance	<ul style="list-style-type: none">Risk of falling from ladders, scaffolding, or open elevator shafts.Tools or materials falling from a height may cause injury to workers below.Faulty or improperly used fall protection equipment can result in falls.Inadequate or unstable scaffolding or ladders may lead to slips or falls.The absence of guardrails or barriers increases the risk of falls.Poor lighting in shafts or around elevators can lead to slips, trips, or missteps.	3	5	H	<ul style="list-style-type: none">Safe Access should be providePersonnel Fall Arrester System should be worn at all times when working a meter & above.Only Competent Personnel are allowed to work at heights.Tool Box Talk.PTW should be provided before commencement of job.100% tie off position must be maintained for fall protection.Use of Proper PPEIn Case required for access use of MEWP, Scaffolding, LadderStatutory Third Party inspection Certification of MEWP, Scaffolding	2	2	L	



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		<ul style="list-style-type: none">Improper use of equipment	<ul style="list-style-type: none">A lack of safe entry and exit points can make it difficult to maintain balance at height.Wind or rain can impact stability and grip, especially if working near open shafts.Extended periods at height may cause fatigue, increasing the risk of accidents.Using ladders, scaffolding, or harnesses incorrectly may compromise safety.				<ul style="list-style-type: none">Maintenance record of the ladderStatutory Third Party Training Certification				
2	Housekeeping	<ul style="list-style-type: none">Tripping HazardsSlipping HazardsBlocked ExitsFalling ObjectsPoor VisibilityEquipment MalfunctionFire HazardsInjury from Sharp ObjectsRestricted MovementMisplacement of Essential Tools	<ul style="list-style-type: none">Tools, equipment, or materials left on floors or work areas can cause trips and falls.Spills, grease, or lubricants on floors may lead to slip incidents.Cluttered walkways and exits can delay evacuation during an emergency.Unsecured tools or testing equipment on elevated platforms may fall, posing risks to workers below.Debris and clutter can obstruct views, increasing the risk of accidental collisions or mishaps.Inadequate cleaning and upkeep can cause	3	4	M	<ul style="list-style-type: none">Trained & Experience WorkerSupervision of the WorkProper use of PPETool Box TalkIsolation the area of inspection	2	2	L	



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			<p>malfunctioning of elevators and testing apparatus.</p> <ul style="list-style-type: none">● Accumulated debris and flammable materials can increase fire risk in confined areas.● Unattended or improperly stored tools and equipment may cause cuts and other injuries.● Excessive materials or equipment in the workspace can limit mobility, increasing the risk of strain or injury.● Disorganized tools and equipment can delay responses in emergencies or disrupt the testing process.								
3	Electrical	<ul style="list-style-type: none">● Electric Shock● Arc Flash● Short Circuits● Faulty Grounding● Contact with Live Wires● Circuit Overload● Electrical Burns● Static Electricity	<ul style="list-style-type: none">● Exposure to high-voltage circuits can cause severe shock or electrocution if proper precautions are not followed.● Electrical arc flashes can occur due to improper contact with live components, causing burns and injuries.● Faulty wiring or damaged insulation can lead to short circuits, increasing the risk of fire.	3	5	H	<ul style="list-style-type: none">● Isolate the area of inspection● Warning Signage● LOTO● Trained & Experience Worker● Supervision of the Work● Proper use of PPE● Tool Box Talk● PTW should be provided before commencement of job.	2	2	L	



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		<ul style="list-style-type: none">● Improper Lockout/Tagout (LOTO)● Equipment Malfunction	<ul style="list-style-type: none">● Inadequate grounding of electrical equipment can cause stray voltage, posing shock hazards to personnel.● Unintentional contact with exposed live wires, often during maintenance, can lead to severe injury.● Excessive load on circuits can cause overheating, potentially leading to equipment failure or fire.● Direct or indirect contact with high-voltage components can result in severe burns.● Accumulated static electricity can lead to shocks or ignite flammable materials in the work area.● Failing to properly isolate and secure electrical sources can lead to accidental energization during testing.● Faulty or poorly maintained electrical testing equipment can pose risks to operators and maintenance staff.								
4	Moving Objects	<ul style="list-style-type: none">● Collision with Moving Elevator Cab● Contact with Counterweights	<ul style="list-style-type: none">● Risk of being struck by the elevator cab while it is in motion.	3	4	M	<ul style="list-style-type: none">● Establish clear communication and signaling procedures to ensure workers are aware of cab movements.	2	2	L	



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		<ul style="list-style-type: none">● Crush Injuries from Misaligned Components● Impact of Falling Weights● Entrapment in Moving Mechanisms● Equipment Roll-away● Accidental Activation of Lift System● Interference with Other Moving Machinery● Contact with Moving Cables● Loss of Balance from Platform Shifts	<ul style="list-style-type: none">● Potential for accidental contact with counterweights, which move in the opposite direction to the elevator cab.● Possibility of hands or other body parts being caught between moving parts like doors or safety interlocks.● Risk of testing weights dropping or shifting unexpectedly, leading to injuries or equipment damage.● Chance of limbs or clothing being trapped in moving mechanisms such as pulleys, cables, or sheaves.● Heavy testing weights or equipment on wheeled platforms may move unexpectedly, causing potential collision risks.● Unintended movement of the elevator due to improper controls or maintenance errors, posing a hazard to workers.● Risk of nearby machinery or tools moving unexpectedly and interfering with the elevator examination process.			<ul style="list-style-type: none">● Implement lockout/tagout procedures to prevent unintended cab movement during testing.● Use warning signage and barriers around the elevator shaft to restrict access during testing.● Enclose or restrict access to areas with counterweights using safety guards.● Conduct testing only when personnel are trained on counterweight hazards.● Use physical barriers or signage to mark counterweight zones, ensuring they remain clear.● Ensure proper alignment and inspection of doors, safety interlocks, and other components before testing.● Train workers to keep hands and clothing away from potential pinch points.● Perform periodic checks on alignment to avoid unexpected component movement during testing.● Use secured weight-testing equipment and ensure all weights are properly attached.			
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- Risk of being struck by or entangled in elevator cables, especially during tensioning or maintenance.
- Sudden movements or shifts in test platforms can cause workers to lose balance and fall.

- Implement exclusion zones beneath or around areas where weights are handled.
- Use safety harnesses and fall protection for workers near elevated areas.
- Enforce strict lockout/tagout procedures to prevent machine activation during maintenance.
- Educate workers on the dangers of moving parts and require PPE, such as gloves and fitted clothing.
- Ensure guards and barriers are in place around mechanisms with moving parts.
- Secure equipment on stable surfaces or lock wheels to prevent movement.
- Inspect the testing area for inclines or hazards that might cause equipment to roll.
- Use chocks or wheel locks on movable items to avoid unexpected rolling.
- Implement lockout/tagout for the lift system controls to prevent unintended activation.
- Display clear signs indicating the testing status and limit access to authorized personnel only.



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- Confirm all safety interlocks are functioning correctly before starting work.
- Schedule elevator testing separately from other equipment operations in the vicinity.
- Isolate the testing area and restrict non-essential machinery during the examination.
- Maintain open lines of communication between teams to prevent unexpected interferences.
- Use protective barriers or enclosures around cables to prevent accidental contact.
- Ensure that workers are aware of the location and movement patterns of cables.
- Secure cables and conduct visual checks for any unexpected movements during testing.
- Ensure that platforms are level, secure, and capable of handling the weight before any work starts.
- Train workers to stand clear of the platform edges and use guardrails when available.

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							<ul style="list-style-type: none"> ● Inspect and stabilize platforms regularly, especially during elevator weight testing activities. 				
5	Safe use of handle tools	<ul style="list-style-type: none"> ● Pinching and Crushing Injuries ● Cuts and Abrasions ● Slips and Falls ● Eye Injuries ● Repetitive Strain Injuries ● Electrical Shock ● Tool Malfunction ● Overexertion ● Fire Hazard 	<ul style="list-style-type: none"> ● Improper handling or use of heavy tools can lead to pinching or crushing fingers and hands. ● Sharp edges or worn-out tools increase the risk of cuts or abrasions when handling or repairing elevator components. ● Leaving tools on floors or near edges can lead to tripping hazards in confined spaces. ● Small particles or tool fragments can cause eye injuries, especially when working with metal or concrete surfaces. ● Extended use of handheld tools may lead to muscle strain or repetitive motion injuries. ● Using tools near electrical circuits without proper insulation can result in electrical shock. ● Defective or poorly maintained tools can break. 	3	4	M	<ul style="list-style-type: none"> ● Always check the equipment is in good condition before use. ● Always wear cut protective gloves. ● Always use the appropriate equipment (an adjustable wrench is less safe than a spanner which is less safe than a hex key). ● Never use damaged tools. ● Always use the correct sized tool for the job ● To prevent for injury due to loose material and tools, must be keep in relevant tool boxes and secured safely. 	2	2	L	



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			<p>causing injuries from sudden tool failure.</p> <ul style="list-style-type: none">● Heavy or extended tool use without adequate breaks can cause fatigue, reducing focus and leading to errors.● Certain hand tools, such as grinders, can generate sparks, posing a fire risk in flammable areas.							
6	Slips, trips and falls	<ul style="list-style-type: none">● Wet or oily floors● Loose or uneven flooring● Poor lighting● Obstructed pathways● Unsecured ladders● Missteps in confined spaces● Improper footwear● Open or exposed edges● Unexpected movement	<ul style="list-style-type: none">● Common in mechanical rooms or elevator pits, increasing slip risk.● This can lead to trips, particularly around elevator entrances.● Reduces visibility, increasing the likelihood of trips or missteps.● Tools, equipment, or cables left in walkways create tripping hazards.● Unstable ladders used in shaft access increase fall risks.● Limited room to maneuver, particularly in elevator pits.● Inadequate footwear may cause loss of grip on smooth or slick surfaces.	3	4	M	<ul style="list-style-type: none">● Tidy site and provide clear defined walkways as per individual compound.● Remove trip hazards around site; store materials in designated areas.● The work will be clear to avoid slip & trip.● All Tools are properly kept in bag/boxes to avoid fall injury.● The area in the lobby is barricaded to prevent unauthorized entry.● Suitable signage and safety net must be placed at workplace.● Sufficient Light arrangement must be provided during work in progress.	2	2	L



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			<ul style="list-style-type: none">● Elevator shafts and open doors may pose fall hazards if barriers aren't in place.● Elevator or counterweight movement can cause imbalance or falls.							
7	Access to Site	<ul style="list-style-type: none">● Unauthorized access to the site● Slips, trips, and falls on uneven or cluttered surfaces● Inadequate lighting in access areas● Vehicular movement around site access points● Weather-related hazards (e.g., rain, high winds)● Lack of awareness among personnel regarding emergency exits and assembly points● Poor communication about site hazards and ongoing activities	<ul style="list-style-type: none">● Potential injuries to unauthorized personnel and increased liability.● Physical injuries, such as sprains, fractures, or bruises.● Reduced visibility, increasing the likelihood of trips and falls.● Risk of collision or being struck by moving vehicles.● Increased risk of slips, falls, and site access obstructions.● Confusion and delays during an emergency, leading to potential injuries.● Increased likelihood of accidents due to lack of awareness.	3	4	M	<ul style="list-style-type: none">● Establish controlled access points with sign-in procedures.● Implement access restrictions with security personnel or badge systems.● Maintain clear and marked pathways.● Regularly inspect and clear access routes of any obstructions or hazards.● Provide appropriate footwear with anti-slip features for all personnel.● Ensure sufficient lighting in all access routes.● Install additional temporary lighting if required.● Establish designated pedestrian pathways separate from vehicular routes.● Use high-visibility signage and barriers.● Implement traffic control measures, such as speed limits and warning signs.	2	2	L



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							<ul style="list-style-type: none">• Monitor weather conditions and adjust work schedules if necessary.• Use non-slip mats or coverings in wet conditions.• Ensure all materials and equipment are secured against strong winds.• Conduct site inductions, including orientation on emergency exits and assembly points.• Place clear signage indicating exit routes and assembly points.• Regularly review emergency response procedures with all site personnel.• Hold daily briefings or toolbox talks to communicate site activities and hazards.• Use signage to warn of specific hazards in access areas.• Ensure two-way radios or communication devices are available for coordination.				
8	Elevator Inspection	<ul style="list-style-type: none">• Mechanical Hazards• Electrical Hazards• Fall Hazards• Load-Testing Hazards• Slip, Trip, and Fall Hazards	<ul style="list-style-type: none">• Crushing, entanglement, or impact injuries from moving elevator parts.• Electric shock, electrocution, or fire hazards from faulty	3	5	M	<ul style="list-style-type: none">• Fix appropriate warnings/ sing board• Provide barriers to restrict unauthorized access to inspection area	2	2	L	



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	<ul style="list-style-type: none">● Hazardous Materials Exposure● Manual Handling Hazards● Noise Hazards● Limited Lighting and Visibility Hazards● Involvement of unauthorized personnel / Entrapment, Panic, Shock, Inquiry● Incompetent maintenance personnel, fatalities● Low overhead (Hitting), Head Inquiry● Inspection of Moving / Rotating parts● Pinch Hazards Caught in Between Moving Objects Cutting, Crushing● Ungraded Object, counter weights,● Entanglement, cutting, crushing, pinch hazard● Physical / Mechanical Hazard	<ul style="list-style-type: none">● wiring or exposed electrical panels● Falling from height or into elevator shaft during inspection.● Overloading or incorrect weight distribution leading to elevator malfunction or structural failure.● Slips, trips, or falls due to oily or wet floors, loose cables, or tools.● Exposure to lubricants, oils, or chemicals during inspection and testing.● Strains or musculoskeletal injuries from lifting heavy weights or equipment.● Hearing damage due to loud noises from machinery.● Reduced visibility leading to potential errors or accidents.			<ul style="list-style-type: none">● Evaluate the maintenance representative as inspection to be carried out with professionally trained and qualified personnel only● Forbid to operate the equipment without the presence of qualified maintenance provider● Always be vigilant at working in low overhead area● Sharp protruding fixtures to be covered● Ensure adequate is paid throughout the duration of inspection for the moving or rotating parts● Keep away from rotating / moving parts● Isolate power supply prior to entry and tag out● Ensure the adequate lighting● Ensure adequate attention paid to work● To prevent the activation or energizing of machinery● Use of proper of PPE● Isolate the area of inspection● Warning Signage● Trained & Experience Worker● Supervision of the Work			
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		<ul style="list-style-type: none">● Electrocution, Electrical Shock and Burns● Unexpected movement Cuts, Serious Injuries, Fatality● Inspection instrument / Tools falling down from the top, Property / Equipment damage & Financial Loos● Fire Hazard, Injuries (minor/major) burns, property damage● Working at height/ insufficient illumination at site, Fatal Injuries● Physiological and physical tiredness, stress and physical exhaustion● Pinching of fingers Finger dislocation				<ul style="list-style-type: none">● Check the condition of the brake and safety gear before entering car top or pit● Ensure that mechanical car holding device are in active position● Use the tools / instrument lanyard to avoid accidental falling down of equipment● Proper housekeeping to be maintained● Suitable fire extinguisher shall be use at work place● Use had lamp to provide adequate lighting● Inform the client to provide adequate illumination● Don't allow to operate when illumination is insufficient● Job Rotation● Rest Breaks● Supervision of the work● Isolation of space● Trained and Experience Inspector● LOTO● Proper use of PPE● Tool Box Talk● PTW should be provided before commencement of job.			
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Risk Matrix

SEVERITY								Consequences: 6 – Catastrophic – Multiple fatalities 5 – Major - Single Fatality 4 – Serious – Permanent disability 3 – Moderate – Lost Time Injury 2 – Minor – Medical Treatment 1 – Insignificant – First Aid Case
LIKELIHOOD		Insignificant	Minor	Moderate	Serious	Major	Catastrophic	
	1	1	2	3	4	5	6	
	2	2	4	6	8	10	12	
	3	3	6	9	12	15	18	
	4	4	8	12	16	20	24	
	5	5	10	15	20	25	30	
	6	6	12	18	24	30	36	
	24 - 36	Extreme	Immediate action required, Activity should not to proceed in current form					
	15 - 20	High	Prompt action required, including interim actions. Activity should be modified to include remedial action and planning.					



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8 - 12	Medium	Schedule action including any interim countermeasures e.g. implement safe work procedures, signage, instructions	
4 - 6	Low	Activity can operate subject to management and or modification,	
1 - 3	Very Low/ Negligible	Risk almost certainly acceptable, no action required unless escalation of risk is possible	

Likely Frequency:

Likelihood (of Adverse Event Occurring)			
	Description	Health & safety	Environmental
6	Almost certain or imminent	Occurs all the time	Continuous or will happen frequently
5	Highly likely	Common occurrence, Occurs multiple times in a year	Happens 5 – 10 times per year
4	Likely or could occur	Know to occur in the last 12 months	1 – 5 times per Year
3	Not likely, but possible	Has occurred in an industry worldwide	Once every 5 years
2	Unlikely	Has not occurred in over 10 years of the same activity	Not happened in over 10 years
1	Rare	Theoretically possible, but not expected to occur	theoretically possible, but not expected to occur



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Sign:	Date:	Sign:	Date:	Sign:	Date: