



Company Name: _____ Jobsite Location: _____

Date: _____ Task: _____ Primary Assessor: _____

Type of MEWP(s) used: _____

Does this risk assessment replace a previous assessment? (circle) No Yes

If Yes, date of previous assessment:

[illegible]

SITE RISK ASSESSMENT PERFORMED BY:

Name (print):	Signature:
Name (print):	Signature:
Name (print):	Signature:
Name (print):	Signature:
Name (print):	Signature:

RISK ASSESSMENT GUIDANCE

Risk assessments are a critical element of jobsite and worker safety. The risks associated with the task specific to MEWP operations must be identified before the work begins. Risks might be associated with the work area, the nature of the MEWP, or the personnel, materials, and equipment to be carried.

The risk assessment involves visiting the work site, preferably with site personnel or their representatives who can identify the hazards associated with the area and the surface where the MEWP will operate.

Once the hazards and risks involved in the task have been identified, the procedures and measures required to eliminate or mitigate them must be identified and implemented. The risk assessment results are used to plan safe work procedures, including any contingencies required to complete the tasks.

Rescue planning is a necessary component of a risk assessment when working at height. Advance planning can aid a safe and timely rescue. A separate form for Rescue Planning should be completed as a part of the risk assessment.

The user, which is most commonly the employer, is responsible for communicating the results of the risk assessment to everyone involved in the operation.

CHANGES: Before a job starts and periodically throughout a long-term job, the risk assessment must be reviewed to determine if tasks have changed or the work environment has changed and how these effect operational safety. If any modifications to the risk assessment are required, these must be communicated to everyone involved prior to resuming the job.

Completing the Risk Assessment

Before MEWP operation and during MEWP use, the user must verify that the operator performs a workplace inspection in the MEWP work area.

The workplace inspection should be performed prior to moving the machine to the site.

The site must be walked and checked for all possible hazards, such as, but not limited to:

- Overhead power lines (electrical conductors) for electrical energy supply or communications purposes
- Drop-offs or holes, including those concealed by water, ice, mud, etc.
- Slopes
- Bumps, floor obstructions, and electric cables
- Confined spaces
- Debris
- Overhead obstructions
- Hazardous atmospheres and/or hazardous locations
- Surfaces inadequate to sustain the ground-bearing pressures imposed by the MEWP in all operating configurations
- Wind and bad weather conditions
- Traffic hazards
- The presence of personnel (authorized and unauthorized) and other mobile equipment

Safety of Workers on the Ground and the General Public

During MEWP operation it is important to keep workers and the general public safe, so they are not exposed to potential hazards in the work area. Maintain a controlled area below and around the MEWP to prevent persons and objects from being struck by the MEWP or falling objects. Look for these hazards and add them to the risk assessment.

When a MEWP is being loaded or unloaded from a transport vehicle on a public road, the users and operators must verify that appropriate measures are taken to protect everyone in or near the area.

These measures may include, but are not limited to:

- Warning cones or hazard tape
- Signs and signal personnel wearing reflective clothing
- Flag personnel to warn people and other vehicles of the presence of the MEWP and the transport vehicle

EXAMPLES OF HAZARDS

HAZARD		RISK	CONTROL MEASURE
1	MEWP equipment is operated on a slope, grade, ramp, etc., that exceeds the rating by the manufacturer.	Tip-over	<ol style="list-style-type: none"> 1. Read and understand the manufacturer's operator's manual and be aware of the limitations of the MEWP equipment. 2. Do not operate outside the allowable range as defined by the manufacturer. 3. Perform a workplace risk assessment. Identify and barricade unsafe work areas. 4. Have operator properly trained to know the appropriate travel speed and direction of travel on sloped surfaces.
2	The load can make the MEWP equipment unstable or damage the equipment.	Tip-over	<ol style="list-style-type: none"> 1. Read the manufacturer's operator's manual and know the rated capacity prior to operation. 2. Monitor and supervise to verify compliance. 3. Select the most appropriate MEWP equipment for the work that needs to be accomplished. 4. Verify MEWP equipment operator/occupant(s) are aware of the weight of all materials to be carried in the MEWP equipment, including personnel. Do not exceed the additional maximum load allowed.
3	Ropes, cords, hoses, etc., are hanging from the MEWP equipment or in the work area, creating potential for entanglement with the work platform and/or damage to property.	Tip-over	<ol style="list-style-type: none"> 1. Avoid hanging any material outside the work platform. 2. Maintain a clean and orderly work area; do not allow hanging objects in the work area of the MEWP equipment.
4	Platform is overloaded from the ground or at height.	Tip-over	<ol style="list-style-type: none"> 1. Always be aware of the work requirements and select the appropriate MEWP equipment to support the maximum allowable rated workload. 2. The operator must read the manufacturer's operator's manual in order to be aware of the rated working load (RWL) of the MEWP equipment prior to operation and know the total weight of all personnel and materials being placed on the platform. 3. Verify that the load is appropriately placed on the platform and platform extension as defined by the manufacturer for proper load distribution. 4. Extra precautions must be made if a load is introduced to the MEWP equipment while the platform is elevated (e.g., lowering equipment for replacement). Specific knowledge of the total weight must be known prior to operating (as stated in Nos. 1-3 above).

5	MEWP equipment is being used like a crane to lift items even though the MEWP equipment is not designed to lift materials except on the platform and within the manufacturer's RWL. Lifting items on the guardrails or by attaching, in any manner, to the MEWP equipment (not approved by the manufacturer) may result in damage or failure of the machine. The damage may not be obvious at the time of loading, but fatigued components could fail in the future.	Tip-over	<ol style="list-style-type: none"> 1. Never allow the MEWP equipment to be used except as designed and approved by its manufacturer. 2. Never add frameworks, mounting of attachments for holding/lifting tools and materials or other modifications without the prior written permission of the MEWP equipment manufacturer. 3. Never exceed the RWL defined by the MEWP equipment manufacturer.
6	MEWP equipment is being used on a barge, truck bed, floating vessel, scaffolding or similar type of equipment. The supporting equipment may be unable to support the load, not provide a level base that may result in shifting loads/exceeding allowable slope, etc., of the MEWP equipment in use.	Tip-over	Only allow MEWP equipment to be used on unusual support equipment/locations when the application has been approved in writing by the manufacturer or a qualified person.
7	Site conditions, such as the support surface, congestion, visibility, slope, etc., when driving the MEWP equipment. Higher travel speed limits the control the operator has under these conditions and exposes personnel to collisions or injuries.	Tip-over	<ol style="list-style-type: none"> 1. MEWP equipment operator must follow safe-use guidelines for travel as defined by the manufacturer in the operator's manual. 2. Always travel at the low travel speed when working at elevation or when appropriate for conditions. 3. Always maintain a safe distance from obstacles, holes, slopes, etc., to verify safe travel.
8	<p>The work platform becomes caught or snagged on a structure or object that prevents it from normal motion of operation.</p> <p>The power of the hydraulic systems on the MEWP equipment can create significant forces if the platform is stuck and the control functions are used. Great potential harm to personnel can occur in this instance.</p>	Tip-over	Immediately stop the operation of the MEWP equipment from the platform and remove the operator/occupant(s) prior to any attempts to free the platform by using the lower ground controls.
9	Work to be performed requires significant side or horizontal force. Increasing the side load or horizontal force beyond the rated horizontal force set by the manufacturer can result in a tip-over. This can become even more likely if not situated on a hard-level surface.	Tip-over	Read the manufacturer's operator's manual prior to operation. Know the required side force for the task and select the most appropriate MEWP equipment for the project or change the work process to be within the limits of the machine's horizontal forces.

10	<p>The ground condition in the work area varies during the project.</p> <p>MEWP equipment is dependent on a hard, level surface that is capable of supporting its load in all working configurations.</p>	Tip-over	<ol style="list-style-type: none"> 1. Have a qualified person verify that the surface the MEWP equipment will travel across and rest upon is capable of supporting the load as defined by the manufacturer for the MEWP equipment in all configurations. Be aware that in certain configurations, up to 80 percent of the MEWP equipment's weight maybe on one tire or outrigger. 2. Operator is to perform a workplace inspection before and during use to check for possible hazards. 3. Site supervisor additionally should perform workplace inspection and verify the operation is performing to compliance.
11	<p>The ground conditions are unlevel and irregular.</p> <p>Some MEWP equipment are designed to operate on limited slopes.</p>	Tip-over	<ol style="list-style-type: none"> 1. Select the most appropriate MEWP equipment with a rated slope for the work area. 2. Select a machine with outriggers and leveling devices that can address the workplace conditions. 3. Outriggers, stabilizers, extendable axles, oscillating axles, or other stability-enhancing devices must be deployed and locked as required by the manufacturer.
12	<p>Rough terrain or poor ground conditions exist. MEWP equipment may exceed manufacturer's recommended slope.</p>	Tip-over	<p>Select only MEWP equipment that is designed to operate on rough-terrain surfaces and use it in compliance with the manufacturer's recommendations.</p>

13	<p>MEWP equipment is struck by vehicle or mobile equipment.</p>	Tip-over or Fall from height	<ol style="list-style-type: none"> 1. Identify and comply with local ordinances or safety standards established for the workplace. 2. Restrict the work area around the MEWP equipment, placing warnings, such as flags, a roped-off area, flashing lights, barricades, etc., around the area. 3. Assign a spotter to control and warn operators of other moving equipment. 4. Schedule work to eliminate potential conflicts.
14	<p>Drivable boom lift hits a bump or drives over a curb.</p>	Fall from height	<p>A workplace risk assessment must be done before and during work to verify a safe travel route.</p>
15	<p>Guardrail is not installed or damaged.</p>	Fall from height	<ol style="list-style-type: none"> 1. Verify a daily prestart inspection occurs and any missing, damaged or non-functioning components are repaired before operation. Apply accident-prevention tag. Verify it stays on until the equipment is repaired to proper operation. 2. Verify that access gates or openings are closed per manufacturer's instructions.

16	<p>Operator/occupant(s) are:</p> <ul style="list-style-type: none"> • Not wearing proper PFPE. • Not properly connected to the anchorage. • Not using proper PFPE for task. • Using damaged PFPE. For instance, the PFPE has cuts, the stitching is worn, etc. 	Fall from height	<ol style="list-style-type: none"> 1. Verify that all MEWP equipment operators/occupant(s) are trained on use and inspection of PFPE. Always comply with manufacturer's recommendations. 2. Monitor to verify that only manufacturer-supplied anchorages are used for fall protection system. 3. Provide operator/occupant(s) correct PFPE when required (always on boom-type MEWP equipment) and monitor to verify that they use it as required. 4. Verify daily prestart inspection includes personal protective devices.
17	Operator/occupant(s) attempt to reach beyond the capacity of the platform by climbing on guardrail or using planks, ladders or other devices to achieve additional height.	Fall from height	<ol style="list-style-type: none"> 1. Verify proper training and supervision for compliance. 2. Always maintain firm footing on the floor of the platform. Never use ladders or other devices to gain additional height. 3. Verify most appropriate MEWP equipment is selected to perform the work required. 4. Reinforce with operators that safety cannot be compromised by shortcuts. 5. Verify proper PFPE is used. 6. Make sure management monitors, supervises and warns.
18	Operator/occupant(s) vacate or enter an elevated platform.	Fall from height	<ol style="list-style-type: none"> 1. Train operator/occupant(s). 2. Verify supervision and monitoring are in place. 3. Choose appropriate MEWP equipment for the work to be performed. 4. Use proper PFPE as required. 5. Vacate/enter an elevated platform only if approved by the manufacturer and then only by following the manufacturer's recommended procedure.
19	The requirement to drive through openings, access areas with overhead structures, work between steel structures, etc.	Crushing	<ol style="list-style-type: none"> 1. Whenever possible, restrict MEWP equipment's activity where overhead obstructions are present. 2. Work with a partner when high-risk work is involved. 3. Have a ground person familiar with the ground controls available in case of an emergency. 4. Verify that the MEWP equipment operator is experienced, thoroughly trained, and familiar with all control functions when exposed to known overhead clearance work.

20	Personnel or equipment may be hit by the lowering of MEWP equipment/structure.	Crushing	<ol style="list-style-type: none"> 1. The operator must verify that the work area of operation is clear prior to lowering or driving the MEWP equipment. 2. If personnel are expected to be in the work area, flag off the MEWP equipment work area. 3. If the MEWP equipment is always in a work environment, select one fitted with a motion alarm to make sure personnel are aware of the MEWP equipment's movements.
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21	Proximity in work area to energized conductors (power lines)/electrically energized conductors.	Electrocution	<ol style="list-style-type: none"> 1. Identify all potential electrocution hazards before starting work and take appropriate action to prevent any contact with a power source, disconnect and tag out power. 2. Clearly mark the minimum approach distance for the MEWP equipment, including the reach of a boom beyond the base. 3. Place markers on the ground to identify them and remind MEWP equipment operators of any overhead power source. 4. As electrical work requires a qualified person to perform the work, verify only qualified individuals assess the risk and determine the appropriate action for safe use in the work area.
22	Loud noise(s), falling objects or flying debris from sawing/cutting. For example, foot injuries from falling items or being hit by moving objects, acid spill injuries from checking a battery, welding, etc.	Environmental hazards to workers in the work area	<ol style="list-style-type: none"> 1. Provide and verify all workers are utilizing proper PPE such as a hard hat, eye and ear protection, gloves, steel-toed shoes, etc. 2. Monitor personnel for compliance.
23	Operator identifies problems or malfunctions with the MEWP equipment but continues to operate the machine. When the MEWP equipment ceases operation, creating a malfunction that results in machine failure.	Damaged machine hazard	<ol style="list-style-type: none"> 1. Operator performs daily prestart inspection and reports issues immediately. 2. Operator's supervisor monitors that prestart inspections are being performed. 3. MEWP equipment is tagged out of service and secured until service/repairs are completed. 4. Operator addresses machine issues immediately during use.
24	Workers are exposed to a health risk from the material in the atmosphere and/or there is the potential of fire.	Hazardous atmosphere	<ol style="list-style-type: none"> 1. Verify a competent person has assessed the work area before authorization to work in the area and that the area is marked approved for operation. 2. Verify that a properly equipped MEWP equipment is used for the hazardous classification intended. 3. Provide workers with an understanding of what to look for if there is potential exposure in the work area and what action to take during an incident. 4. Operators will immediately report any potentially hazardous location that becomes evident during operation.
25	Fueling or charging the battery introduces hazardous fumes into the work area, creating potential for fire or harm to workers.	Hazardous atmosphere	Fuel or charge batteries in a well-ventilated area, free from flames, sparks, or other hazards that may cause a fire or explosion.
26	<p>Multiple workers are in the general work area of the operating MEWP equipment.</p> <p>The MEWP equipment may hit and injure workers on the ground when moving and/or the operator/ occupant(s) of the MEWP equipment may drop objects on workers who are below.</p>	Collision	<ol style="list-style-type: none"> 1. Operator must verify that the work area is clear of personnel and equipment before moving (driving, lowering, etc.) the MEWP equipment. 2. If the potential for dropping tools or equipment exists, either restrict the work area below the elevated operator/ occupant(s) or prevent tools and equipment from dropping to lower areas (e.g., tether tools, use workplace netting, etc.). 3. All workers must be aware of the potential movement of equipment such as sounding a horn prior to driving or installing a motion alarm.

27	<p>Others in the work area or unauthorized individuals attempt to use the MEWP equipment.</p> <p>Only authorized personnel who have been trained and familiarized can operate MEWP equipment. Non-authorized individuals can be exposed to all known hazards, which could damage the equipment, place themselves and others in harm's way, and cause property damage.</p>	Unauthorized use	<ol style="list-style-type: none"> 1. Always secure and implement means to prevent unauthorized use of the MEWP equipment such as elevating the work platform at the end of the shift and removing the key. 2. Verify that the operator is aware not to allow anyone not authorized by his employer to use the MEWP equipment, even for a few minutes.
28	<p>Interlocks or other safety devices are tampered with or disconnected to allow operator to maneuver MEWP equipment in manner restricted by the manufacturer, such as disconnecting the noise from warning alarms, etc.</p> <p>Modification or alterations to MEWP equipment in any manner can create unintended hazards and risks for the operator/occupant(s) and personnel in the work area.</p>	Unauthorized modification	<ol style="list-style-type: none"> 1. Never alter or disable any safety device. Verify that the device has not been altered or disabled by completing the required daily prestart inspection and function test and checking that the safety devices are operating correctly. 2. No modifications may be made without the prior written permission of the manufacturer to verify compliance with standards and regulations.